



Board of Selectmen Meeting

Tuesday, September 24, 2019 7:00 PM

36 Bartlet Street, Andover, MA 01810

Selectmen's Conference Room

I. Call to Order – 7:00 P.M.

II. Opening Ceremonies

A. Moment of Silence/Pledge of Allegiance

III. Communications/Announcements/Liaison Reports

IV. Citizens Petitions and Presentations

V. Regular Business of the Board

A. Human Trafficking Overview - (20 minutes)

Chief of Police and Director of Public Health to provide an overview on human trafficking.

B. Columbia Safety Procedures - (25 minutes)

Representatives of Columbia Gas to present an overview of safety procedures and protocols that will be followed during requested projects.

VI. Public Hearings – 8:00 P.M.

A. Columbia Gas - (10 minutes)

Board to discuss and consider voting to approve a petition of Columbia Gas requesting permission to excavate for purposes of replacing and/or extending its mains according to submitted blueprints hereto annexed and made a part of this petition, and to make the necessary house connections along said extensions as follows: This project is to replace approximately 2300 feet of cast iron and bare steel gas main in Andover. The project scope includes Hidden Road (from South Main Street to Lantern Lane), Gardner Avenue and Forbes Street (from Hidden Road to Karlton Circle.)

B. Columbia Gas - (10 minutes)

Board to discuss and consider voting to approve a petition of Columbia Gas requesting permission to excavate for purposes of replacing and/or extending its mains according to submitted blueprints hereto annexed and made a part of this petition, and to make the necessary house connections along said extensions as follows: This project is to install approximately 40 feet of 4" PHIP gas main on Charlotte Drive from the end of the existing gas main towards 15 Charlotte Drive in order to install a new gas service to the requested meter location at 15 Charlotte Drive.

RECEIVED
TOWN CLERK'S OFFICE
2019 SEP 20 P 2:54
TOWN OF ANDOVER, MASS.

C. Columbia Gas - (10 minutes)

Board to discuss and consider voting to approve a petition of Columbia Gas requesting permission to excavate for purposes of replacing and/or extending its mains according to submitted blueprints hereto annexed and made a part of this petition, and to make the necessary house connections along said extensions as follows: To excavate approximately 2800 feet on High Plain Road from Beacon to 79 High Plain Road and 1,000 feet on Virginia Road and Shirley Road, for the purpose of replacing the Cast Iron/Bare Steel-low pressure gas main with Plastic-high pressure in order to retire the Andover low pressure system. All existing gas services within the project scope will be tied into the new Plastic-high pressure main. As part of the project, the low pressure gas regulator vault across from 185 Lowell Street and redundant gas main on Beacon Street (390' of 6" ST-LP) and Lowell Street (665' of 6" CI-LP) will be retied.

VII. Consent Agenda

A. Appointments by the Town Manager

Board to vote that the following appointments by the Town Manager be approved:

Department	Name	Position	Rate/Term	Date of Hire
Andover Green Advisory Board	Harry Vorhees	Member	Three years	9/25/19
Commission on Disability	Faisal Bashir	Member	Three years	9/25/19
Commission on Disability	S. David Kahan	Member	Three years	9/25/19
Commission on Disability	Virginia McLeod	Member	Three years	9/25/19
Commission on Disability	Mary Eileen Reilly	Member	Three years	9/25/19
Town Clerk's Office	Stephanie Vaccaro	Customer Service Assistant	\$21.36/hour	9/30/19
Community Services – Elder Services	Caren Connor	Office Assistant	\$21.36/hour	9/18/19
Community Services – Elder Services	Patricia McCloskey	Office Assistant	\$21.36/hour	10/7/19
Department of Public Works	Kiera Lawlor	Administrative Intern	\$14.00/hour	9/24/19
Community Services -Recreation	Kathryn Allen	Kid Care	\$12.00/hour	9/16/19
Community Services – Recreation	Madilyn Francis	Kid Care	\$12.25/hour	9/16/19
Community Services – Recreation	Bryant Kroeger	Kid Care	\$11.25/hour	8/28/19
Community Services – Recreation	Mafoudia Keita	Memorial Circle After School Program	\$11.25/hour	9/16/19

Community Services – Recreation	Anthony Mazzariello	Memorial Circle After School Program	\$11.25/hour	9/16/19
Community Services – Recreation	Erin Pero	Fitness Instructor	\$20.00/hour	9/23/19
Community Services -Youth Services	Rosie Scott	Seasonal	\$11.25/hour	9/10/19
Community Services -Youth Services	Timmy Kobelski	Seasonal	\$11.25/hour	9/14/19
Community Services – Youth Services	Christina Reardon	Seasonal	\$12.00/hour	9/23/19
Community Services – Youth Services	Emma Accardi	Seasonal	\$12.00/hour	9/23/19
Community Services – Youth Services	Nina McKone	Seasonal	\$12.00/hour	9/23/19
Community Services – Youth Services	Benjamin Mergendahl	Seasonal	\$12.00/hour	9/23/19

VIII. Adjourn

If any member of the public wishing to attend this meeting seeks special accommodations in accordance with the Americans with Disabilities Act, please contact Kathryn Forina in the Town Manager's Office at 978-623-8215 or by email at kathryn.forina@andoverma.us

**MEETINGS ARE TELEVISED ON
COMCAST CHANNEL 22 AND VERIZON CHANNEL 45**



TOWN OF ANDOVER

Town Clerk's Office

36 Bartlet Street
Andover, MA 01810
978-623-8255
townclerk@andoverma.gov

NOTICE

You are hereby notified that the Public Hearing will be held by the Andover Select Board on Tuesday, September 10, 2019 has been continued to Tuesday, September 24, 2019 in the 3rd Floor Conference Room, Town Offices, 36 Bartlet Street, at 8 p.m.

Columbia Gas of Massachusetts requests permission to excavate for purposes of replacing and/or extending its gas mains, according to blueprints annexed and made a part of its petition, and to make the necessary house connections along said extensions, as follows:

This project is to replace approximately 2300 feet of cast iron and bare steel gas main in Andover. The project scope includes Hidden Road (from South Main Street to Lantern Lane), Gardner Avenue, and Forbes Street (from Hidden Road to Karlton Circle).

JO#: 17-0841883-00

Should you have any concerns about this proposal, please contact Veena Kothapalli at 978-314-8061 prior to the above-mentioned Select Board's hearing date. A representative of the company will be available at 6:45 P.M. on the above date to answer any other questions you may have relating to the proposed work.

Plan(s) of the proposed work can be found on the Town of Andover web site at www.andoverma.gov in the Open Meeting Calendar by searching under the public hearing date.

By order of the
Select Board

Austin Simko
Town Clerk

Plan No.: **17-0841883-00**
Date: September 13, 2019

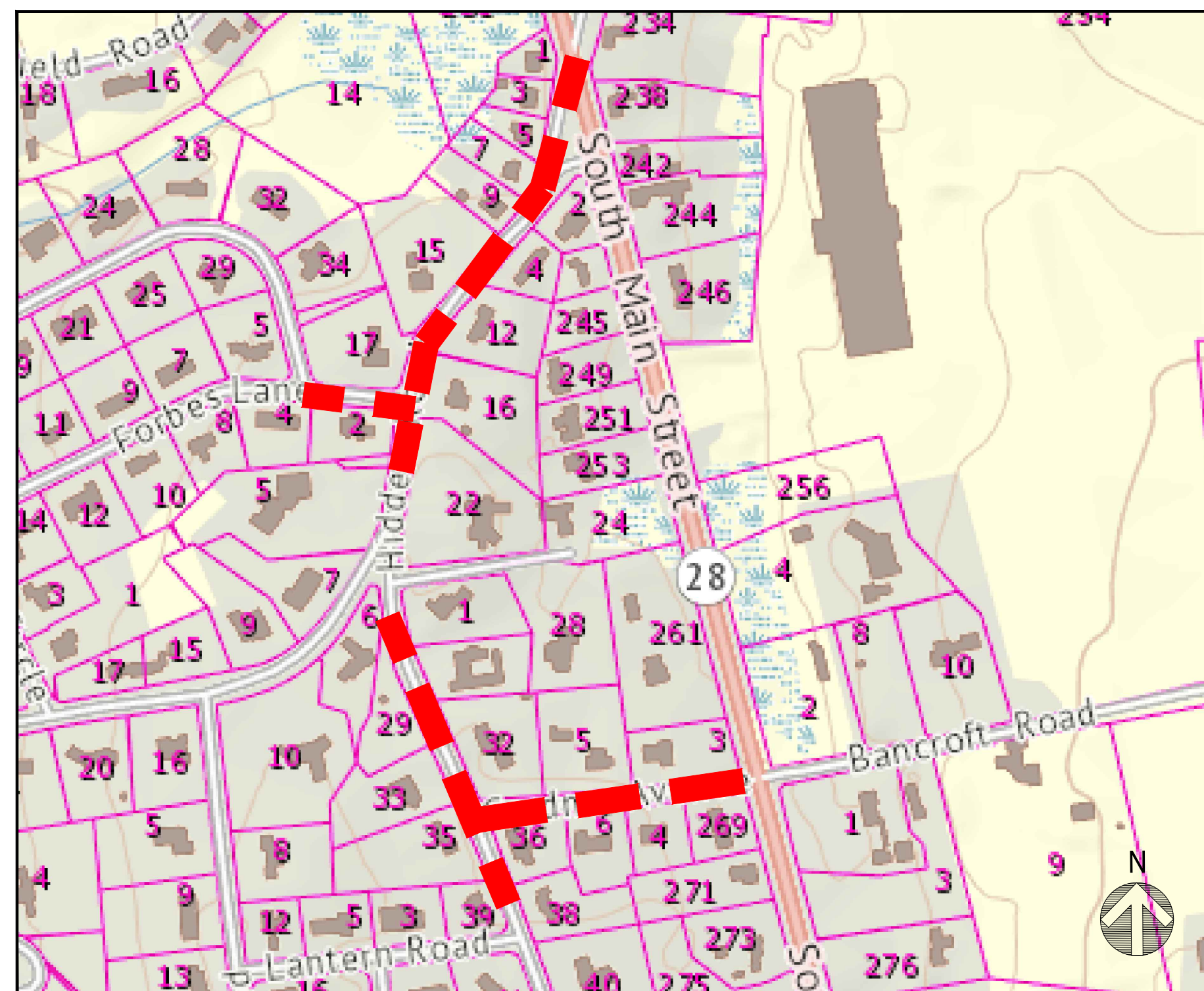


INSTALLATION ORDER NUMBER 17-0841883-00
ABANDONMENT ORDER NUMBER 17-0841884-00
PROJECT ID 17-48840
HIDDEN RD, ANDOVER
JOB TYPE: REPLACEMENT (557/558)

PROJECT INFORMATION

FIELD ENGINEER/TECHNICIAN:	K MURRAY
CONSTRUCTION FLL:	K WELLS / J ANGELARI
PERMITS:	CITY PERMIT STATE PERMIT ENVIRONMENTAL PERMIT
TCC/LOA:	8400
COUNTY:	ESSEX (009)
TAX DISTRICT/TOWNSHIP ID:	0000401
MAP/GRID NUMBER:	AND-063
SYSTEM NUMBER(S):	80001012
24 HR. EMERGENCY LINE:	COLUMBIA GAS OF MASSACHUSETTS 1-800-525-8222

VICINITY MAP



PROJECT DESCRIPTION

THIS PROJECT IS TO REPLACE APPROXIMATELY 2300' OF CAST IRON AND BARE STEEL GAS MAIN ON HIDDEN ROAD, GARDNER AVE, AND FORBES LANE IN ANDOVER. THIS PROJECT IS PLANNED DUE TO A MUNICIPAL PAVING PROJECT ON HIDDEN ROAD AND GARDNER AVE.

SHEET INDEX

DWG.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
ENV-1	ENVIRONMENTAL PLAN NARRATIVE
O-1	OVERVIEW SHEET
L-1 - L-2	LAYOUT PLANS
D-1	CONSTRUCTION DETAILS

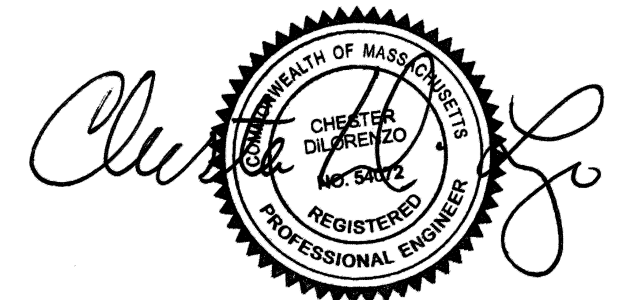
PROJECT SUMMARY TABLE

PROPOSED INSTALLATION			PROPOSED ABANDONMENT		
LENGTH (FT)	SIZE (IN)	TYPE	LENGTH (FT)	SIZE (IN)	TYPE
1,600'	6"	PH	790'	8"	CI
730'	4"	PH	70'	6"	CI
			930'	4"	CI
			55'	8"	PL
			20'	6"	PL
			455'	6"	ST
2,330	TOTAL INSTALLATION (FEET)		2,320	TOTAL ABANDONMENT (FEET)	

PROPOSED GAS SERVICES				
	REPLACEMENTS	TIE OVERS	TOTAL SERVICES	METER OUT
ESTIMATED GAS SERVICES	10	12	10	7



Know what's **below**.
Call before you dig.



09/24/2049

PROPOSED

REVISIONS

0	7/5/19	INITIAL ISSUE - PERMIT COPY
REV. #	DATE	DESCRIPTION

DESIGNED BY	K MURRAY	7/3/19	978-802-5728
DRAWN BY	K MURRAY	7/3/19	978-802-5728
CHECK'D BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:

INST# 17-0841883-00
ABAN# 17-0841884-00
PROJECT ID# 17-48840

HIDDEN RD, ANDOVER
ANDOVER, ESSEX (009)

DRAWING TITLE:

TITLE SHEET

DRAWING NO:

T-1

General Notes

1. The proposed gas main shown is approximate and is subject to change.
2. Property lines, structures, street lines, etc. were compiled using the NiSource GIS and are to be considered approximate.
3. Existing utilities, where shown, have been compiled from above ground evidence only and are to be considered approximate. NiSource does not guarantee the location of the underground utilities shown or that all existing utilities and/or subsurface structures are shown.
4. This project will adhere to all applicable federal, state or local permitting requirements for abandonment and installation of natural gas pipelines. All Federal, State, and Local codes and standards will be adhered including, but not limited to, the following:

Code of Federal Regulations (CFR)

- 49 CFR 192 Pipeline Safety Regulations
29 CFR 1910 Occupational Safety and Health Administration (OSHA)

American Society of Mechanical Engineers (ASME)

- ASME B31.8 Gas Transmission and Distribution Piping Systems

5. All NiSource design codes and standards will be adhered to as applicable. These standards include but are not limited to the following (note state-specific designations where applicable):

- GS 1100.010(IN, KY, MA, MD, OH, PA, VA) Locating Gas Facilities
GS 1100.040(MA and VA only) Damage Prevention When Using Conventional Excavation Technologies
GS 1100.050(IN, OH, VA) Damage Prevention - Using Trenchless Technology
GS 1170.010(IN) Gas Control Room Management
GS 1210.010(MA) Nondestructive Testing And Visual Inspection
GS 1300.010 Fusion And Mechanical Joining
GS 1301.010 Plastic Pipe Fusion And Mechanical Joining Qualification Of Personnel
GS 1302.010(VA) Butt Fusion Joining
GS 1304.010 Electrofusion Joining
GS 1320.010 Mechanical Coupling Connections
GS 1323.010 Flange Connections
GS 1400.010 Corrosion Control - General
GS 1410.010(VA) Metallic Pipeline Exposures
GS 1420.035 Coating Repair Methods For Mill Applied Coatings
GS 1420.040 Coating Methods For Girth Welds, Fittings, Risers & Other Below Grade Appurtenances
GS 1420.410 Corrosion Control - Inspection Of Steel Pipe Coating
GS 1420.510 Installation Of Galvanic Anodes
GS 1420.520 Installation Of Test Stations
GS 1430.320 Ultrasonic Thickness Gauge
GS 1500.010(MA, OH) Pressure Testing
GS 1670.020(IN, KY, MA, MD) Odor Level Monitoring
GS 1670.040 Pipeline Conditioning New Pipelines
GS 1680.010 Tie-Ins And Tapping Pressurized Pipelines
GS 1680.020 Plastic To Steel Transition Connections
GS 1680.040 Squeeze Off Procedure For Plastic Pipe
GS 1680.050 Squeeze Off Guidelines For Steel Pipe
GS 1690.010 Purging
GS 1708.020(IN, KY, MA, MD, PA) Leakage Surveys
GS 1740.010(MA, OH, PA, VA) Abandonment Of Facilities
GS 1740.012(MA, PA) Abandoning Facilities - Service Tee Removal
GS 1742.010(VA) Discontinuing Gas Service
GS 1754.010(KY, OH) Operation And Maintenance Of Pressure Gauges
GS 1770.010 Prevention Of Accidental Ignition
GS 1782.010(MA) Protecting Cast Iron Pipelines
GS 3000.020(VA) Inspection Of Materials
GS 3000.900 Work Site Restoration
GS 3010.030 Bends And Elbows
GS 3010.050(IN, MA) Installation Of Pipe In A Ditch
GS 3010.060(IN) Installation Of Plastic Pipe
GS 3010.080(MA, OH, VA) Underground Clearance
GS 3010.090(IN, MA, PA, VA) Cover
GS 3010.100(VA) Transmission Lines And Distribution Mains - Trenchless Technology
GS 3010.102(VA) Directional Boring
GS 3010.210(MA only) Use Of End Caps On Steel Pipe
GS 3020.030 Service Line Connections To Main Piping
HSE 4100.010 Hazardous Atmosphere Considerations
HSE 4100.020 Work Zone Traffic Protection
HSE 4100.040 Excavation (Trenching) Safety
HSE 4120.010 Welding And Cutting
HSE 4200.020 Protective Footwear
HSE 4200.030 Eye And Face Protection
HSE 4200.040 Hand Protection
HSE 4200.050 Head Protection
HSE 4440.030(KY, MA, MD, OH, PA, VA) Spoil Handling During Excavations
ON 18-09 Additional Requirements For Tie-Ins Involving Low Pressure Facilities
WM Columbia Gas Welding Manual

6. Prior to beginning any excavation on site, the person responsible for earth moving shall notify utility owners of their intent to excavate and to have the exact locations of the utility lines marked by contacting the one call center in their state subject to any applicable state advance notification requirements.
7. Proposed or completed gas facility installation location references may be indicated by a combination of the following codes:

- F - FRONT
BK - BACK
L - LEFT
R - RIGHT
B - BUILDING EDGE
CLP - CENTER OF PAVEMENT
CLR - CENTER OF RIGHT-OF-WAY
CEL - CENTER OF EASTBOUND LANE
CWL - CENTER OF WESTBOUND LANE
CNL - CENTER OF NORTHBOUND LANE
CSL - CENTER OF SOUTHBOUND LANE
CU - CURB
D - DRIVEWAY EDGE
EP - EDGE OF PAVEMENT
ES - EDGE OF SIDEWALK
PL - PROPERTY LINE

DRAWING LEGEND

Gas Main Symbology

- Existing Gas Main
Existing Gas Main to Be Abandoned
Proposed Gas Main
Proposed Gas Main Uprate

Gas Main Material/Pressure Label References

- CS Coated Steel Gas Main
CI Cast Iron Gas Main
BS Bare Steel Gas Main
WI Wrought Iron Gas Main
PH High Density Polyethylene Gas Main
PM Medium Density Polyethylene Gas Main
LP Low Pressure
IP Intermediate Pressure
MP Medium Pressure
HP High Pressure

Gas Main Installation Method Label References

- AT Attached
BH Bridge Hanger
BLGH Building Hanger
DB Directional Bore
IS Inserted
OC Open Cut
PB Pneumatic Bore
PL Plowed
RT Roof Top
(E) Existing
(P) Proposed

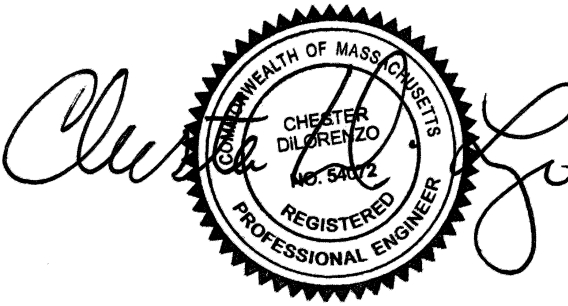
- W Weld Location
T Gas Main Tie-in Location
A Gas Main Abandonment Location

Gas Facility Symbology

- 4"GV Gas Valve (Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)
4"PV Critical Gas Valve
2"HVTT High Volume Tapping Tee
2"SST Pressure Control Fitting - ShortStopp Tee
4"SPH Pressure Control Fitting - Spherical Tee
6"MF-BO Pressure Control Fitting - Mueller Bottom-out
6"MF-SO Pressure Control Fitting - Mueller Side-out
4"MF-FT Pressure Control Fitting - Mueller Flange Tee
4"SS Pressure Control Fitting - ShortStopp
4"MF Pressure Control Fitting - ShortStopp
6x4 POLYTAP Polytapp Side Saddle Fitting
Transition
End Cap
Riser
Reducer
Electronic Marker
Flush-mounted Tracer Wire Station
Post Pipeline Marker with Tracer Wire
Gas Main Marker without Tracer Wire
Test Well
Regulator Station
Single Customer Regulator
Meter
Meter with Regulator
Test Point (Station)
Gas Service Tie-over
Gas Service Replacement
Meter Move Out

Swing Tie Symbology

- Telephone Manhole
Drain Manhole
Electric Manhole
Catch Basis
Sewer Manhole
Fire Hydrant
Utility Pole
Property Marker
Telephone Pedestal
Television Pedestal
Unknown Manhole
Water Box
Water Gate
Electric Pedestal
Iron Pin
Light Pole



09/24/2049

PROPOSED

REVISIONS

REV. #	DATE	DESCRIPTION
0	7/5/19	INITIAL ISSUE - PERMIT COPY

DESIGNED BY	K MURRAY	7/3/19	978-802-5728
DRAWN BY	K MURRAY	7/3/19	978-802-5728
CHECKD BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:

INST# 17-0841883-00
ABAN# 17-0841884-00
PROJECT ID# 17-48840
HIDDEN RD, ANDOVER
ANDOVER, ESSEX (009)

DRAWING TITLE:

GENERAL NOTES

DRAWING NO:

GN-1

Environmental Plan Narrative

- A Site-Specific Erosion Control plan is required for this project. This plan, with the project Environmental Compliance Plan (ECP), provide information regarding all environmental requirements.
- The project ECP and the site-specific EC plan must be reviewed with environmental, construction and contractor personnel prior to the start of construction activities. This includes any tree clearing activities required prior to the start of pipeline construction.
- All NiSource construction activities must be performed in accordance with the NiSource Environmental Construction Standards (ECS) and the project ECP.
- All NiSource construction projects must have a clearly defined work area or limits of disturbance (LOD). The LOD includes the permitted project area and any additional work space needed for laydown yards, soil stockpiling areas, access routes, etc. Identify the LOD in the field with NRP or the Environmental Inspector before work starts and notify NRP of any additional work space that may be needed.

Description and Minimum Requirements for Erosion and Sediment Control Measures

The information provided below outlines the purpose of common EC measures and how and when they shall be applied to the site. Figures showing installation details are provided in the NiSource ECS manual. Requirements outlined in the site-specific EC plan must be implemented in addition to these minimum requirements.

Perimeter Barriers: Perimeter barriers, such as silt fence and compost filter sock may be installed along the outside of the project area or around sensitive areas to slow and filter sediment laden runoff before it leaves the work area.

These measures are required in the following areas:

- When work is occurring adjacent to streams, wetlands or other sensitive areas.
- Around HDD bore pits adjacent to streams, wetlands or other sensitive areas.
- Around soil stockpiles that will remain uncovered for greater than one working day.
- Where any work areas or excavations will remain disturbed (unstabilized) for longer than one working day.

Inlet Protection: Storm drain inlet protection, both curb and drop inlets, are required in active work areas where there is functioning storm sewer to slow and filter water draining into the system. In areas where the work area is adjacent to, or water from the site flows onto a paved roadway, inlet protection will be placed in all functioning outlets.

Check dams: Rock check dams may be installed in areas of concentrated flow in a ditch line to slow runoff and allow sediment to settle prior to discharge. Check dams may also be used as a break in a perimeter barriers where runoff is concentrated and perimeter barriers are insufficient to detain runoff. Check dams are required when working in ditch lines where work will remain active for more than 1 day and as a supplementary measure determined to be needed during construction.

Dewatering Devices: A filter bag, or other approved dewatering device, must be used during all dewatering activities to remove suspended sediment from the water prior to discharge into the environment. Dewatering devices must be used in areas including, but not limited, to trench or pit dewatering and treatment of excess HDD mud.

Construction Entrances: In cases where vehicular access from the work area occurs at a single point for multiple days, a rock construction entrance must be installed. A stabilized construction entrance may not be feasible during construction within or immediately adjacent to a roadway as the construction project moves linearly along the road. In these cases, care should be taken to minimize vehicular access and the roadway shall be regularly cleaned of tracked sediment throughout the work day. Alternatives to rock entrances include the placement of timber mats or similar non erodible materials. Use of these alternatives must be approved by the NRP group or environmental inspector.

Trench Plugs/Breakers: Trench breakers consist of sand or earth filled sacks placed at intervals along the pipeline trench. Trench breakers may be installed at intervals within the trench to reduce water velocity along the pipeline bedding that can result in erosion during construction and after backfilling. Trench plugs consist of clay, bentonite or other impermeable material and are required adjacent to stream and wetland crossings to ensure that the flow of water along the trench line does not impact the waterbody.

Temporary Stabilization: Temporary stabilization includes the placement of an annual or cover crop and a straw or other mulch covering to protect disturbed areas from precipitation. In certain cases where redisturbance will occur prior to a normal germination period, temporary stabilization with mulch or other covering may be completed without the application of seed.

Temporary stabilization will be completed on the following areas to reduce erosion from bare ground during rainfall events:

- Any areas, including stockpiles or tie-in pits, which will remain open overnight without perimeter controls.
- Any work area that will remain bare/disturbed longer than 7 days (4 in PA) without being actively worked within that time. Seeding must be completed within this time window.

Permanent Stabilization: Includes the placement of a permanent seed mix and a straw or other mulch covering to permanently stabilize the disturbed areas. Proper ground/ seed bed preparation (e.g. topsoiling, raking, decompaction) shall be completed as appropriate to the existing site area to provide a sufficient surface for seed germination.

Permanent seeding shall be completed immediately after work completion in all work areas without structural controls; regardless of whether the surrounding area is vegetated. Permanent seeding shall be applied within 7 days (4 days in PA) of work completion in areas all other areas; with the exception of work area protected by adequate structural controls where the surrounding area is an active construction site and was not vegetated prior to the start of work.

Erosion Control Blanket/Matting: Erosion control blanket is a straw matting that can be rolled out over a disturbed area and secured using pins or stakes. This blanket may be used on steeper sloped areas to hold seed and mulch in place. Erosion control blanket can also be useful in protecting the seed and holding moisture in dry, windy areas. Erosion control blanket must be used in restoration adjacent to streams or wetlands. It should also be used in areas with high erosion potential (e.g. steep slopes, embankments, ditch lines).

Maintenance: The job site shall be inspected by construction personnel at the end of each day to ensure that any controls are functioning and that the work area is sufficiently contained. Required maintenance of NiSource installed controls or corrective actions shall be performed immediately or within the time frames noted by an Environmental Inspector.

Measures previously installed by third parties shall be maintained by NiSource under the following circumstances:

- The control is not properly functioning and is being used to contain sediment and prevent erosion immediately adjacent to NiSource work.
- Damage to the control is the result of work performed by NiSource.

Projects within Third Party Construction Sites:

In situations where NiSource projects are being completed within a larger project or development area, NiSource is still responsible for ensuring our work is in compliance with all laws and regulations. This must be documented under one of the following scenarios:

- Prior to the start of construction activities, a qualified NiSource representative will verify that all NiSource work activities will be covered under the third party's approved site plan and/or SWPPP and that the appropriate EC measures are installed and functioning. This review will be documented and retained in the project records.
- If the EC measures required by the third party's approved site plan are not present or functioning, NiSource construction activities may commence under the following conditions:
 - All disturbed NiSource work areas are stabilized at the end of the work day.
 - Any NiSource work areas requiring disturbance over one working day (e.g. stockpiles, tie-in pits) will require perimeter controls or temporary mulching or covering on a daily basis.
 - The overall project SWPPP is present/available and all NiSource activities remain within compliance of all outlined requirements.
 - Any additional permits required for the NiSource work are obtained.
 - The third party permit holder is informed of the site deficiencies and NiSource's plan to complete the work.

Final stabilization measures shall be completed as described in the applicable Temporary or Permanent Stabilization sections above to match the adjacent conditions of the third party project.

In addition to the preceding methods, the following erosion control measures will be used on a daily basis regardless of whether the work area is inside third party controls:

- Perimeter barriers around bore pits at wetland/ stream bores
- Dewatering activities using a filter bag or other approved method
- Roadway cleaning daily for sediment tracked onto paved surfaces

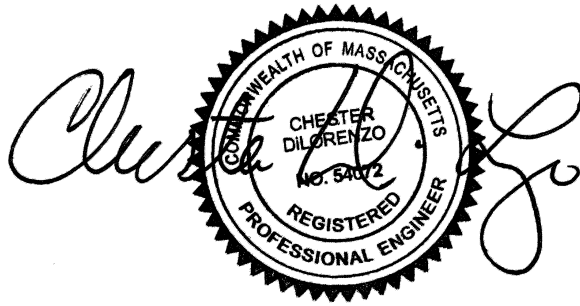
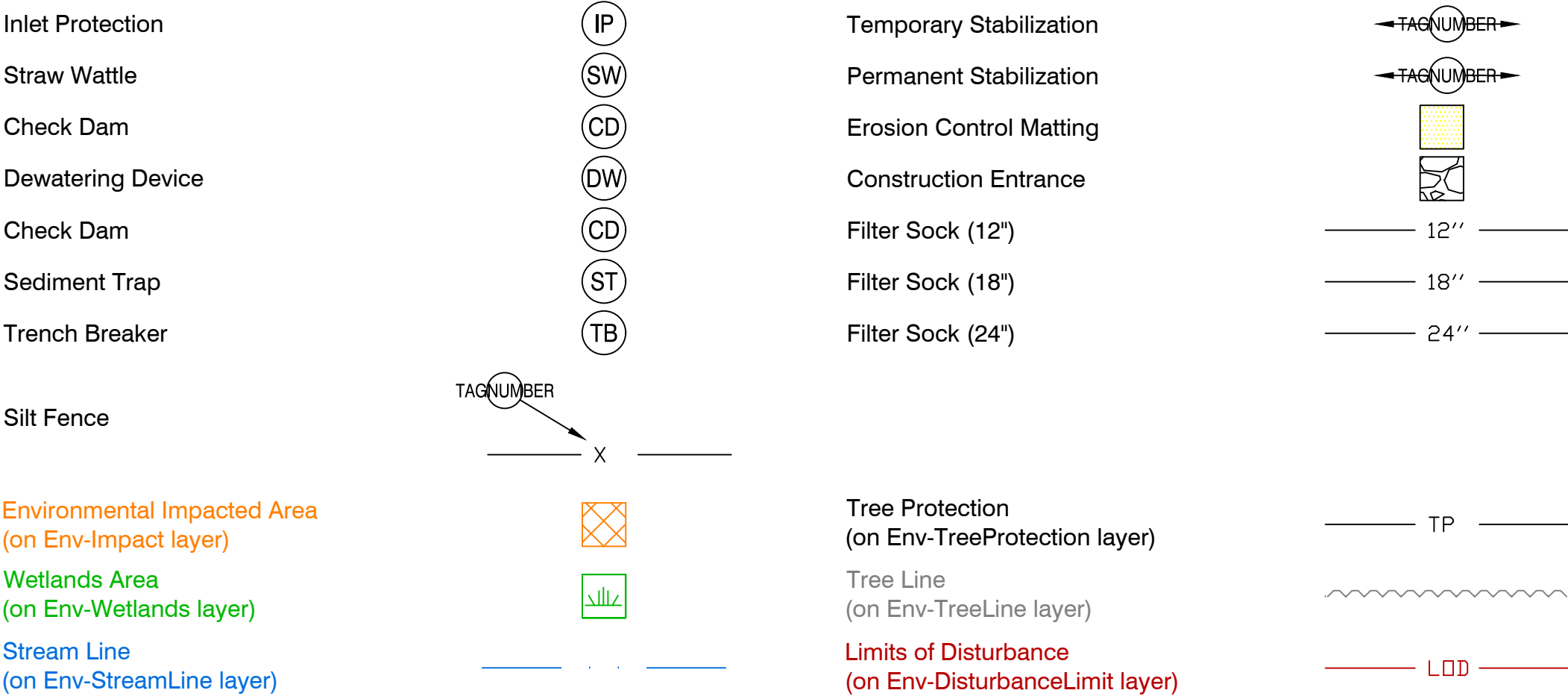
Wetland and Stream Crossings, Sensitive Areas:

All wetlands, stream crossings and other sensitive areas (e.g. managed lands, parks, and endangered species habitat areas) must be marked in the field with caution flagging prior to the start of clearing activities and/or land disturbing activities.

Any requirements for construction within these areas will be outlined within the ECP and the attached permit documents. These permits must also be reviewed prior to the start of construction.

ENVIRONMENTAL EROSION AND SEDIMENT CONTROL SYMBOLOGY

ENVIRONMENTAL EROSION CONTROL BLOCKS
(on Env-ErosionControl layer)



09/24/2049

PROPOSED

REVISIONS

REV. #	DATE	DESCRIPTION
0	7/5/19	INITIAL ISSUE - PERMIT COPY

DESIGNED BY	K MURRAY	7/3/19	978-802-5728
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SITE NAME:

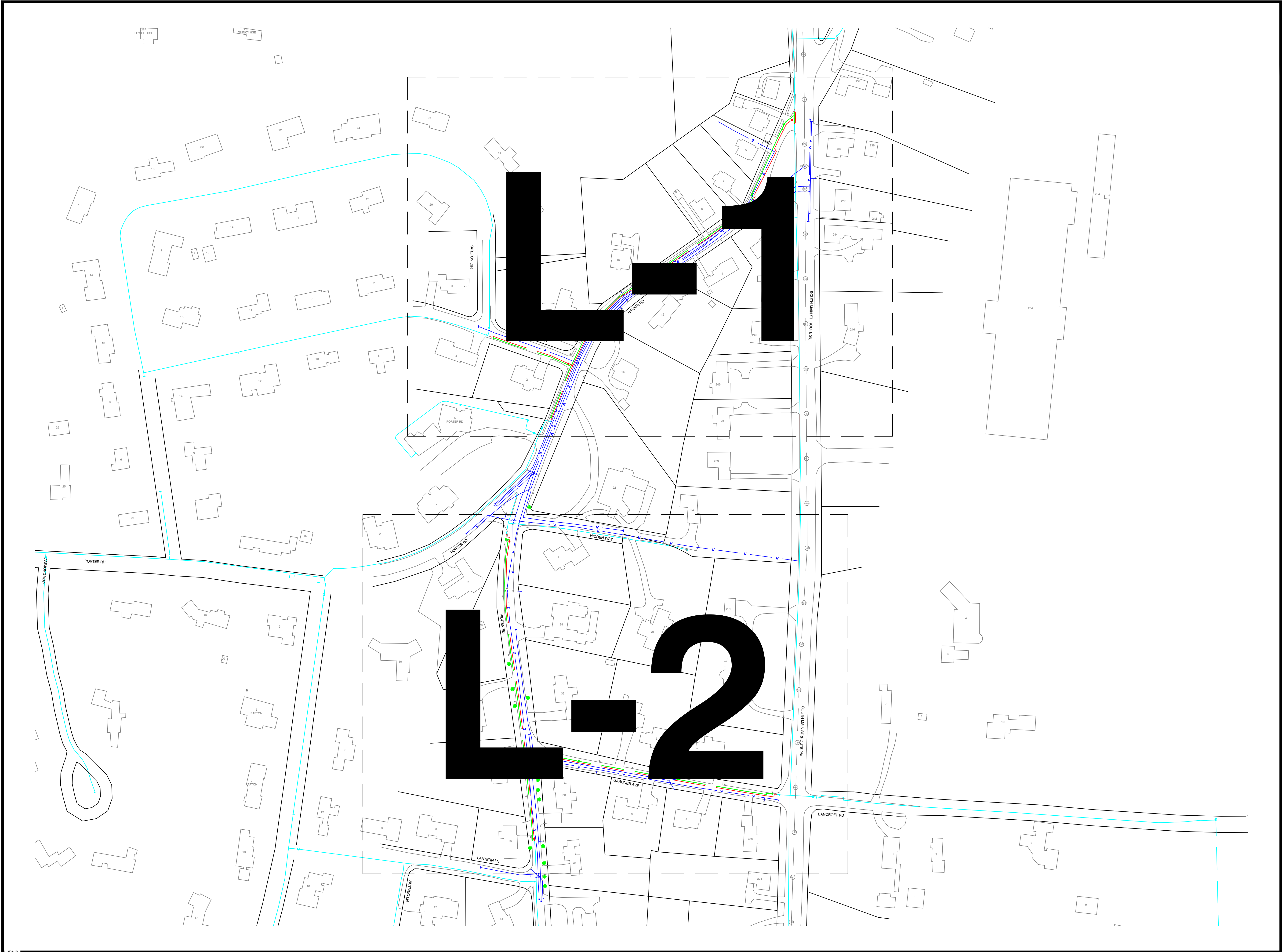
INST# 17-0841883-00
ABAN# 17-0841884-00
PROJECT ID# 17-48840
HIDDEN RD, ANDOVER
ANDOVER, ESSEX (009)


DRAWING TITLE:


ENVIRONMENTAL
NARRATIVE

DRAWING NO:

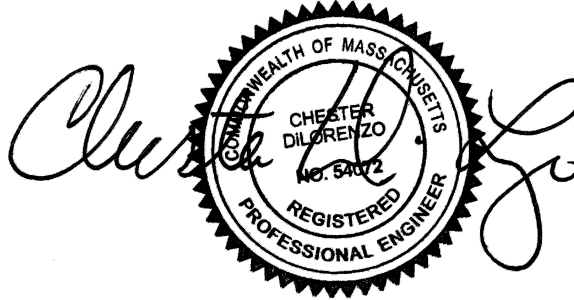
ENV-1



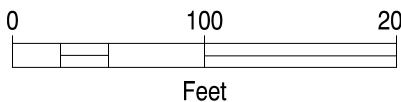





Know what's below.
Call before you dig.



09/24/2049



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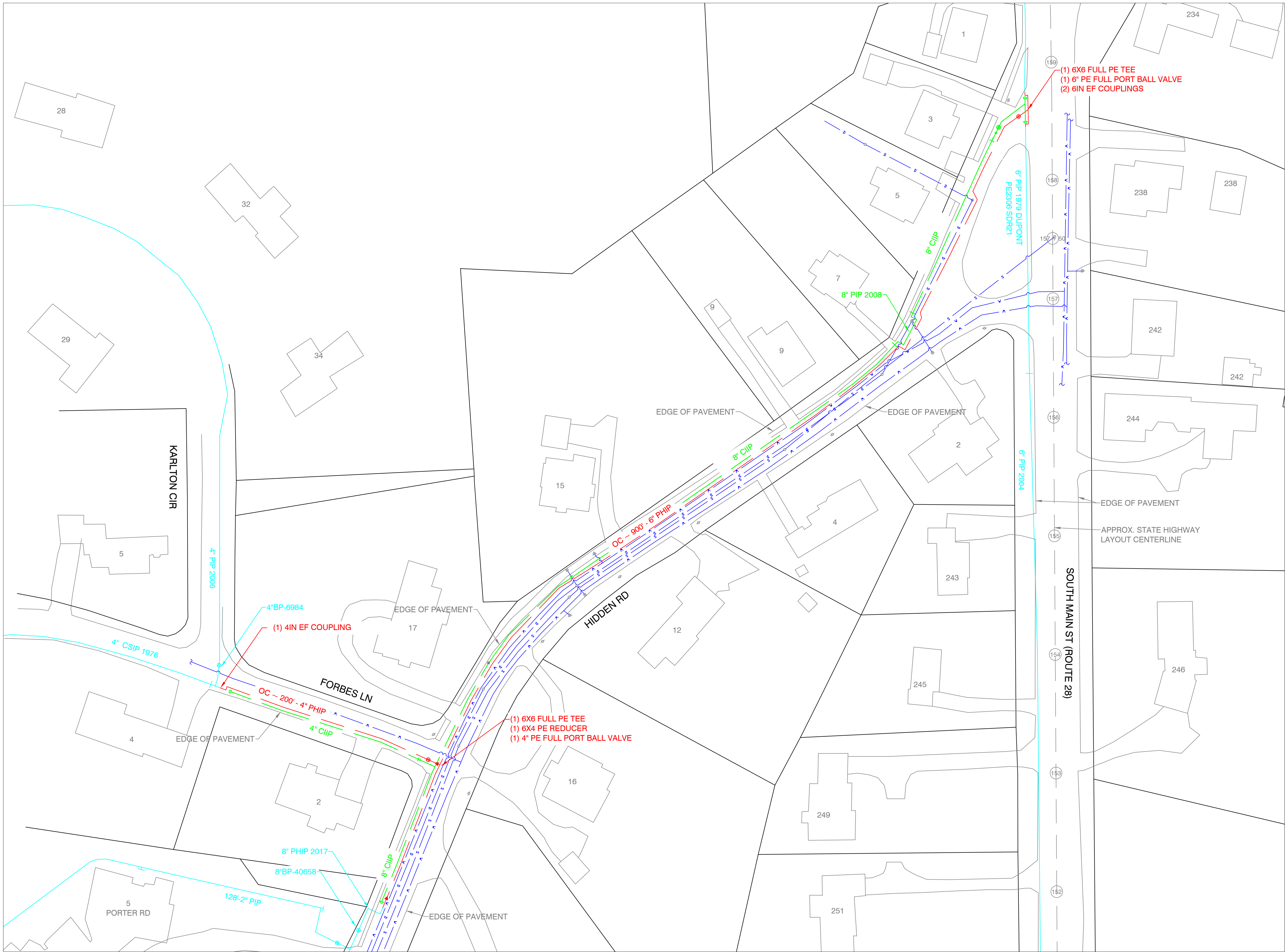
INST# 17-0841883-00
ABAN# 17-0841884-00
PROJECT ID# 17-48840
HIDDEN RD, ANDOVER
ANDOVER, ESSEX (009)

DRAWING TITLE:

OVERVIEW SHEET

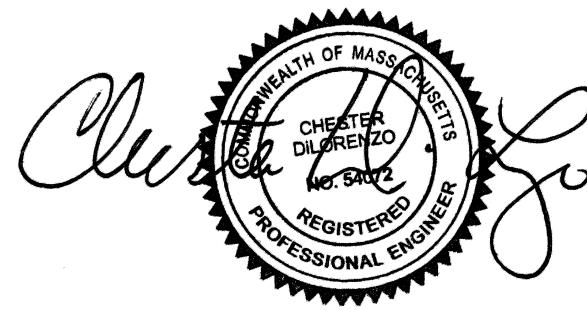
DRAWING NO:

O-1

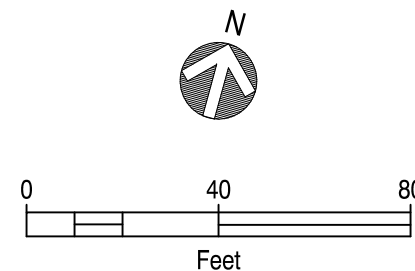


NiSource

L-1
L-2



09/24/2049



PROPOSED

REVISIONS

REV. #	DATE	DESCRIPTION
0	7/5/19	INITIAL ISSUE - PERMIT COPY

DESIGNED BY	K MURRAY	7/3/19	978-802-5728
DRAWN BY	K MURRAY	7/3/19	978-802-5728
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:

INST# 17-0841883-00
ABAN# 17-0841884-00
PROJECT ID# 17-48840
HIDDEN RD, ANDOVER
ANDOVER, ESSEX (009)

DRAWING TITLE:

LAYOUT SHEET

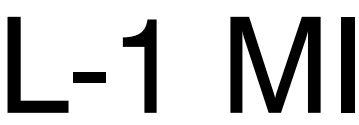
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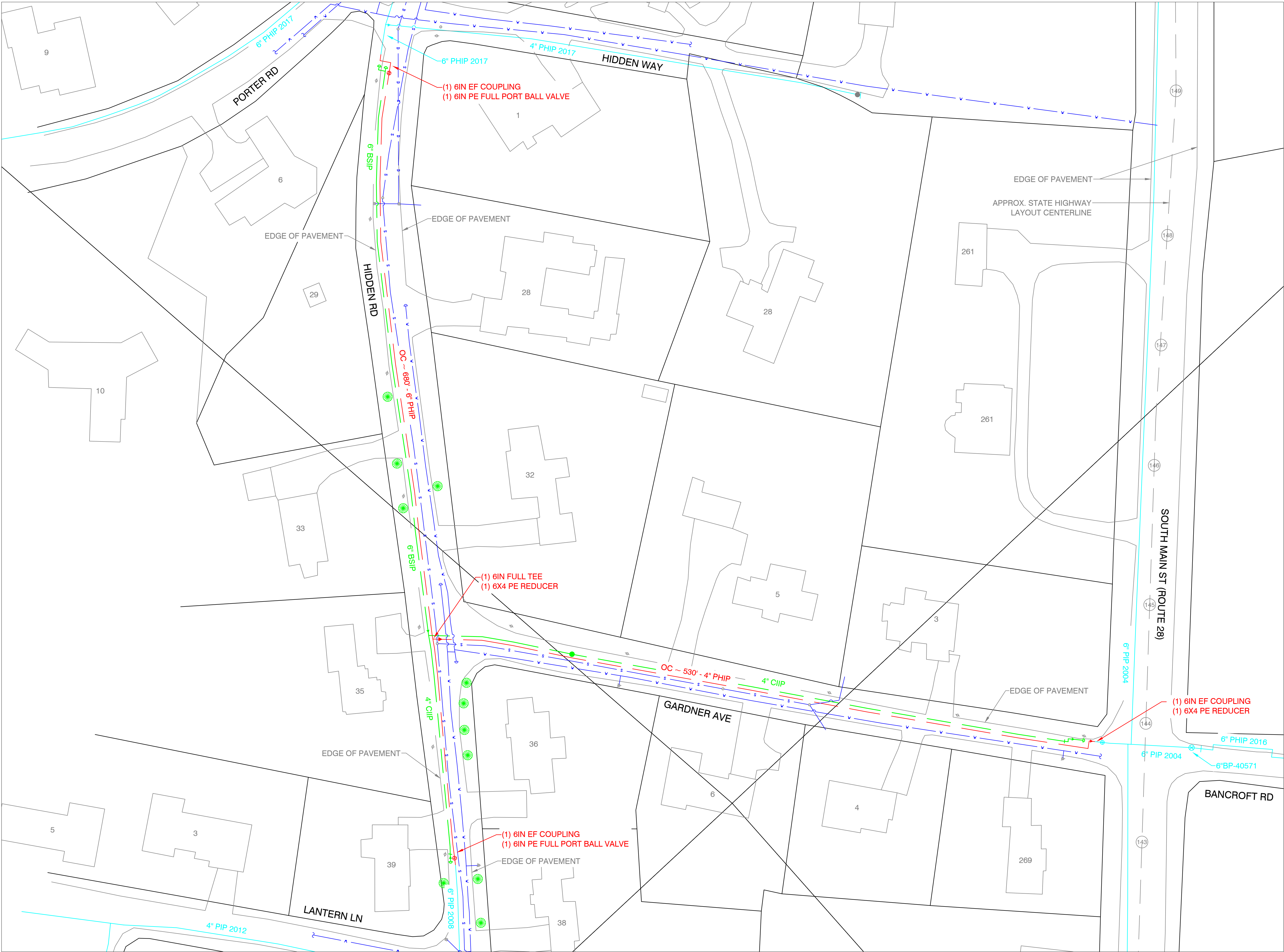
L-1

(TO BE COMPLETED DURING CONSTRUCTION)

[illegible]

FITTING LEGEND		
CONTROLLABLE FITTINGS		
FITTING TYPE	LABEL	SYMBOL
BOTTOM OUT MUELLER FITTING	4" MF-BO	
HIGH VOLUME TEE	4x2 HTM	
SHORTSTOPP	4" SS	
FULL ENCIRCLEMENT SHORTSTOPP	4" SS-FE	
FULL ENCIRCLEMENT SHORTSTOPP TEE	4" SST-FE	
SIDE OUT MUELLER FITTING	4" MF-SO	
SPHERICAL TEE	4" SPH	
MUELLER STOPPER	4" MF-ST	
SHORTSTOPP TEE	4" SST	
NONCONTROLLABLE FITTINGS		
FITTING TYPE	LABEL	SYMBOL
BLOW-DOWN	BLOW-DOWN	N/A ^
BLOW-OFF	BLOW-OFF	N/A ^
CHECK VALVE	4" CHECK VALVE	
COUPLING	4" COUPLING	
ELL	4" 90° ELL/45° ELL	N/A*
END CAP	4" DE CAP	
LAUNCHER-RECEIVER	LAUNCHER-RECEIVER	N/A ^
PUMPKIN	PUMPKIN	
REDUCER	4x2 REDUCER	
RELIEF	RELIEF	N/A ^
SADDLE	8x4 BRANCH SADDLE	N/A*
TEE	4" INLINE TEE	N/A*
TRANSITION	4" TRANSITION	
WELD INSULATOR	4" WELD INSULATOR	
RISER	4" PMMP-R/CSMP-R	

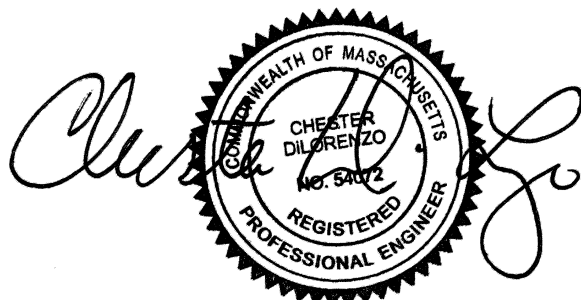




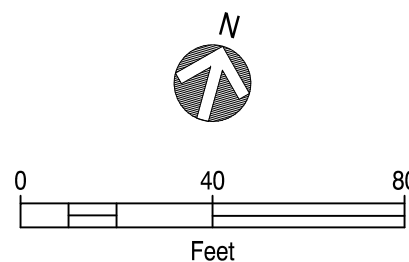
NiSource

L-1

L-2



09/24/2049



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HIDDEN RD, ANDOVER
ANDOVER, ESSEX (009)

DRAWING TITLE:

LAYOUT SHEET





DRAWING NO:

L-2

(TO BE COMPLETED DURING CONSTRUCTION)

[illegible][illegible][illegible]

CONTROLLABLE FITTINGS

FITTING TYPE	LABEL	<u>SYMBOL</u>
BOTTOM OUT MUELLER FITTING	4" MF-BO	
HIGH VOLUME TEE	4x2 HVT	
SHORTSTOPP	4" SS	
FULL ENCIRCLEMENT SHORTSTOPP	4" SS-FE	
FULL ENCIRCLEMENT SHORTSTOPP TEE	4" SST-FE	
SIDE OUT MUELLER FITTING	4" MF-SO	
SPHERICAL TEE	4" SPH	
MUELLER STOPPER	4" MF-ST	
SHORTSTOPP TEE	4" SST	

NONCONTROLLABLE FITTINGS

FITTING TYPE	LABEL	SYMBOL
BLOW-DOWN	BLOW-DOWN	N/A ^
BLOW-OFF	BLOW-OFF	N/A ^
CHECK VALVE	4" CHECK VALVE	⊗
COUPLING	4" COUPLING	⊗
ELL	4" 90° ELL/45° ELL	N/A*
END CAP	4" DE CAP	N/A ^
LAUNCHER-RECEIVER	LAUNCHER-RECEIVER	N/A ^
PUMPKIN	PUMPKIN	⊗
REDUCER	4x2 REDUCER	◀
RELIEF	RELIEF	N/A ^
SADDLE	8x4 BRANCH SADDLE	N/A*
TEE	4" INLINE TEE	N/A*
TRANSITION	4" TRANSITION	⊗
WELD INSULATOR	4" WELD INSULATOR	⊗
RISER	4" PMMP-R/CMPMP-R	⊗

^ - "FITTING" TO BE REPRESENTED WITH DETAILED SKETCH OF FACILITY
 * - FITTING INDICATED BY CHANGE IN DIRECTION (ELBOW) OR
 INTERSECTION OF FACILITIES (INLINE TEE, BRANCH SADDLE)



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ABAN# 17-0841884-00
PROJECT ID# 17-48840
 HIDDEN RD, ANDOVER
 ANDOVER, ESSEX (009)

DRAWING TITLE:

MATERIAL INFORMATION

DRAWING NO:

L-2 MI

CONSTRUCTION DETAILS		



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ABAN# 17-0841884-00
PROJECT ID# 17-48840
 HIDDEN RD, ANDOVER
 ANDOVER, ESSEX (009)

DRAWING TITLE:

CONSTRUCTION DETAILS

DRAWING NO:

D-1

Columbia Gas – Hidden Road Motion

I move that the Board approve, subject to the review and approval of the Andover Department of Public Works Engineering Division and Andover Fire Rescue, the petition of Columbia Gas requesting the permission to excavate for the purpose of replacing and/or extending its gas mains, according to blueprints provided in the petition, and to make necessary house connections along said extensions, on Hidden Road (from South Main Street to Lantern Lane), Gardner Avenue, and Forbes Street (from Hidden Road to Karlton Circle).

Moved by_____

Seconded by_____

Voted_____ to _____



TOWN OF ANDOVER

Town Clerk's Office

36 Bartlet Street
Andover, MA 01810
978-623-8255
townclerk@andoverma.gov

NOTICE

You are hereby notified that the Public Hearing held by the Andover Select Board on Tuesday, September 10, 2019 has been continued to Tuesday, September 24, 2019 in the 3rd Floor Conference Room, Town Offices, 36 Bartlet Street, at 8 p.m.

Columbia Gas of Massachusetts requests permission to excavate for the purpose of replacing and/or extending its gas mains, according to blueprints annexed and made a part of its petition, and to make the necessary house connections along said extensions, as follows:

This project is to install approximately 40 feet of 4" PHIP gas main on Charlotte Drive from the end of the existing gas main towards 15 Charlotte Drive. This project is part of Columbia Gas' "Growth" budget and is necessary to install a new gas service to the requested meter location at 15 Charlotte Drive.

JO#: 19-0844250-00

Should you have any concerns about this proposal, please contact Veena Kothapalli at 978-314-8061 prior to the above-mentioned Select Board's hearing date. A representative of the company will be available at 6:45 P.M. on the above date to answer any other questions you may have relating to the proposed work.

Plan(s) of the proposed work can be found on the Town of Andover website at www.andoverma.gov in the Open Meeting Calendar by searching under the public hearing date.

By order of the
Select Board

Austin Simko
Town Clerk

JO#: 19-0844250-00

Date: September 13, 2019

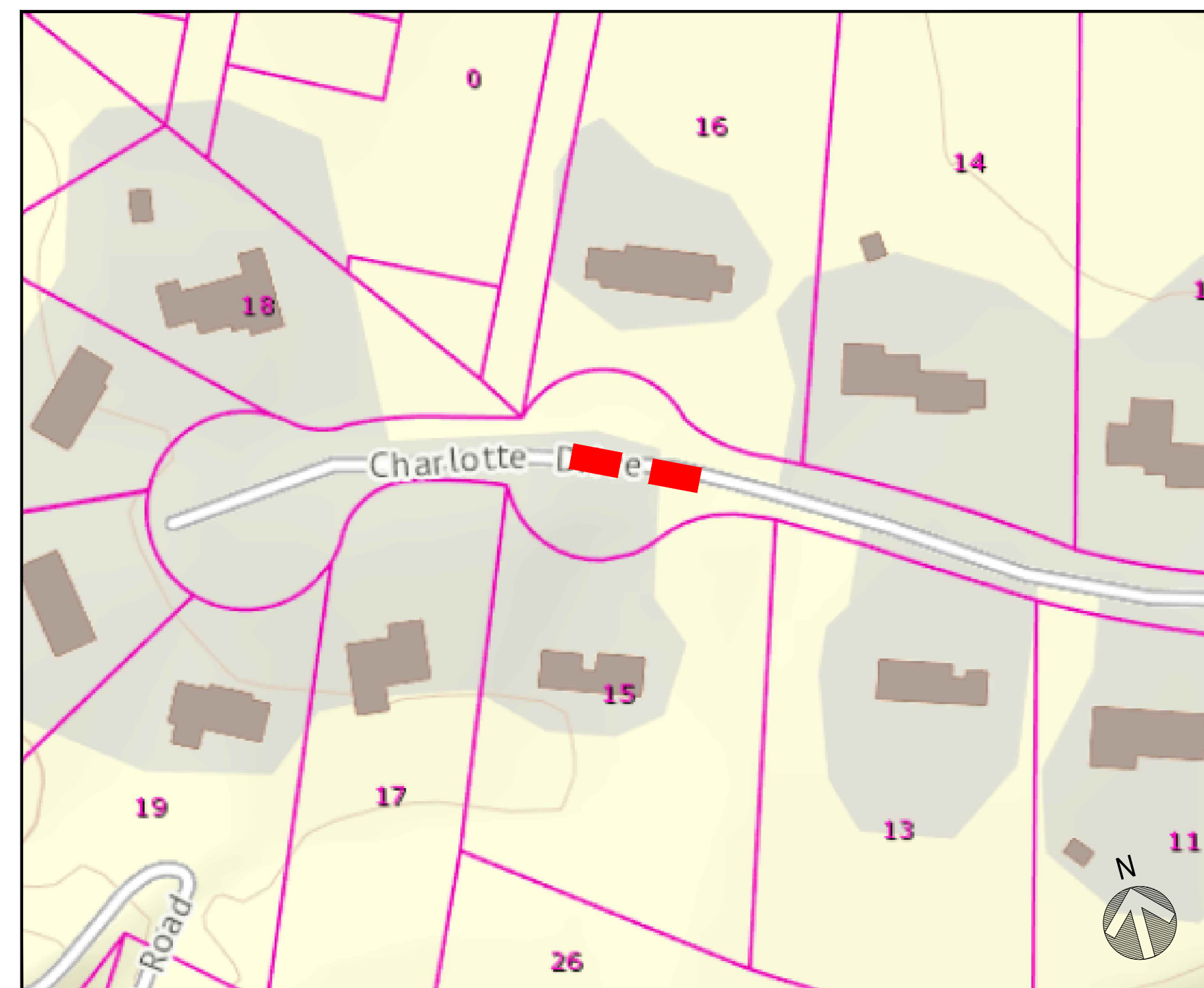


INSTALLATION ORDER NUMBER 19-0844250-00
PROJECT ID 19-61713
15 CHARLOTTE DR, ANDOVER
JOB TYPE: GROWTH (555)

PROJECT INFORMATION

FIELD ENGINEER/TECHNICIAN:	K MURRAY
CONSTRUCTION FLL:	K WELLS / J ANGELARI
PERMITS:	CITY PERMIT
TCC/LOA:	8400
COUNTY:	ESSEX
TAX DISTRICT/TOWNSHIP ID:	0000401
MAP/GRID NUMBER:	AND-148
SYSTEM NUMBER(S):	80001013
24 HR. EMERGENCY LINE:	COLUMBIA GAS OF MASSACHUSETTS 1-800-525-8222

VICINITY MAP



PROJECT DESCRIPTION

THIS PROJECT IS TO INSTALL 40' OF 4" PHIP MAIN ON CHARLOTTE DRIVE, ANDOVER. THE PROPOSED INSTALLATION IS REQUIRED IN ORDER TO INSTALL A NEW GAS SERVICE TO 15 CHARLOTTE DRIVE.

SHEET INDEX

DWG.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
ENV-1	ENVIRONMENTAL PLAN NARRATIVE
L-1	LAYOUT PLANS
D-1	CONSTRUCTION DETAILS

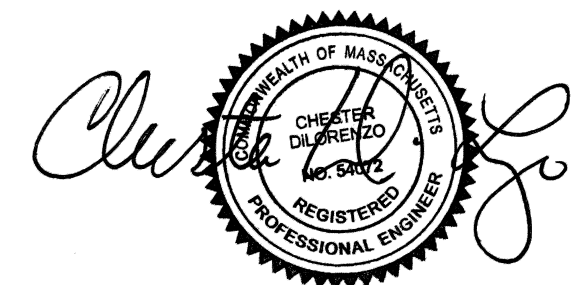
PROJECT SUMMARY TABLE

PROPOSED INSTALLATION			PROPOSED ABANDONMENT		
LENGTH (FT)	SIZE (IN)	TYPE	LENGTH (FT)	SIZE (IN)	TYPE
40'	4"	HDPE	0'		
40	TOTAL INSTALLATION (FEET)		0	TOTAL ABANDONMENT (FEET)	

PROPOSED GAS SERVICES				
	REPLACEMENTS	TIE OVERS	TOTAL SERVICES	METER OUT
ESTIMATED GAS SERVICES	0	0	1	0



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09/24/2019

PROPOSED

REVISIONS

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SITE NAME:

INST# 19-0844250-00
ABAN# XX-XXXXXXXX-XX
PROJECT ID# 19-61713
 15 CHARLOTTE DR, ANDOVER
 ANDOVER, ESSEX

DRAWING TITLE:

TITLE SHEET

DRAWING NO:

T-1

General Notes

1. The proposed gas main shown is approximate and is subject to change.
2. Property lines, structures, street lines, etc. were compiled using the NiSource GIS and are to be considered approximate.
3. Existing utilities, where shown, have been compiled from above ground evidence only and are to be considered approximate. NiSource does not guarantee the location of the underground utilities shown or that all existing utilities and/or subsurface structures are shown.
4. This project will adhere to all applicable federal, state or local permitting requirements for abandonment and installation of natural gas pipelines. All Federal, State, and Local codes and standards will be adhered including, but not limited to, the following:

Code of Federal Regulations (CFR)

- 49 CFR 192 Pipeline Safety Regulations
29 CFR 1910 Occupational Safety and Health Administration (OSHA)

American Society of Mechanical Engineers (ASME)

- ASME B31.8 Gas Transmission and Distribution Piping Systems

5. All NiSource design codes and standards will be adhered to as applicable. These standards include but are not limited to the following (note state-specific designations where applicable):

GS 1100.010(IN, KY, MA, MD, OH, PA, VA) Locating Gas Facilities
GS 1100.040(MA and VA only) Damage Prevention When Using Conventional Excavation Technologies
GS 1100.050(IN, OH, VA) Damage Prevention - Using Trenchless Technology
GS 1170.010(IN) Gas Control Room Management
GS 1210.010(MA) Nondestructive Testing And Visual Inspection
GS 1300.010 Fusion And Mechanical Joining
GS 1301.010 Plastic Pipe Fusion And Mechanical Joining Qualification Of Personnel
GS 1302.010(VA) Butt Fusion Joining
GS 1304.010 Electrofusion Joining
GS 1320.010 Mechanical Coupling Connections
GS 1323.010 Flange Connections
GS 1400.010 Corrosion Control - General
GS 1410.010(VA) Metallic Pipeline Exposures
GS 1420.035 Coating Repair Methods For Mill Applied Coatings
GS 1420.040 Coating Methods For Girth Welds, Fittings, Risers & Other Below Grade Appurtenances
GS 1420.410 Corrosion Control - Inspection Of Steel Pipe Coating
GS 1420.510 Installation Of Galvanic Anodes
GS 1420.520 Installation Of Test Stations
GS 1430.320 Ultrasonic Thickness Gauge
GS 1500.010(MA, OH) Pressure Testing
GS 1670.020(IN, KY, MA, MD) Odor Level Monitoring
GS 1670.040 Pipeline Conditioning New Pipelines
GS 1680.010 Tie-Ins And Tapping Pressurized Pipelines
GS 1680.020 Plastic To Steel Transition Connections
GS 1680.040 Squeeze Off Procedure For Plastic Pipe
GS 1680.050 Squeeze Off Guidelines For Steel Pipe
GS 1690.010 Purging
GS 1708.020(IN, KY, MA, MD, PA) Leakage Surveys
GS 1740.010(MA, OH, PA, VA) Abandonment Of Facilities
GS 1740.012(MA, PA) Abandoning Facilities - Service Tee Removal
GS 1742.010(VA) Discontinuing Gas Service
GS 1754.010(KY, OH) Operation And Maintenance Of Pressure Gauges
GS 1770.010 Prevention Of Accidental Ignition
GS 1782.010(MA) Protecting Cast Iron Pipelines
GS 3000.020(VA) Inspection Of Materials
GS 3000.900 Work Site Restoration
GS 3010.030 Bends And Elbows
GS 3010.050(IN, MA) Installation Of Pipe In A Ditch
GS 3010.060(IN) Installation Of Plastic Pipe
GS 3010.080(MA, OH, VA) Underground Clearance
GS 3010.090(IN, MA, PA, VA) Cover
GS 3010.100(VA) Transmission Lines And Distribution Mains - Trenchless Technology
GS 3010.102(VA) Directional Boring
GS 3010.210(MA only) Use Of End Caps On Steel Pipe
GS 3020.030 Service Line Connections To Main Piping
HSE 4100.010 Hazardous Atmosphere Considerations
HSE 4100.020 Work Zone Traffic Protection
HSE 4100.040 Excavation (Trenching) Safety
HSE 4120.010 Welding And Cutting
HSE 4200.020 Protective Footwear
HSE 4200.030 Eye And Face Protection
HSE 4200.040 Hand Protection
HSE 4200.050 Head Protection
HSE 4440.030(KY, MA, MD, OH, PA, VA) Spoil Handling During Excavations
ON 18-09 Additional Requirements For Tie-Ins Involving Low Pressure Facilities
WM Columbia Gas Welding Manual

6. Prior to beginning any excavation on site, the person responsible for earth moving shall notify utility owners of their intent to excavate and to have the exact locations of the utility lines marked by contacting the one call center in their state subject to any applicable state advance notification requirements.
7. Proposed or completed gas facility installation location references may be indicated by a combination of the following codes:

F - FRONT
BK - BACK
L - LEFT
R - RIGHT
B - BUILDING EDGE
CLP - CENTER OF PAVEMENT
CLR - CENTER OF RIGHT-OF-WAY
CEL - CENTER OF EASTBOUND LANE
CWL - CENTER OF WESTBOUND LANE
CNL - CENTER OF NORTHBOUND LANE
CSL - CENTER OF SOUTHBOUND LANE
CU - CURB
D - DRIVEWAY EDGE
EP - EDGE OF PAVEMENT
ES - EDGE OF SIDEWALK
PL - PROPERTY LINE

DRAWING LEGEND

Gas Main Symbolology

Existing Gas Main
Existing Gas Main to Be Abandoned
Proposed Gas Main
Proposed Gas Main Uprate

Gas Main Material/Pressure Label References

CS Coated Steel Gas Main
CI Cast Iron Gas Main
BS Bare Steel Gas Main
WI Wrought Iron Gas Main
PH High Density Polyethylene Gas Main
PM Medium Density Polyethylene Gas Main
LP Low Pressure
IP Intermediate Pressure
MP Medium Pressure
HP High Pressure

Gas Main Installation Method Label References

AT Attached
BH Bridge Hanger
BLGH Building Hanger
DB Directional Bore
IS Inserted
OC Open Cut
PB Pneumatic Bore
PL Plowed
RT Roof Top
(E) Existing
(P) Proposed

W Weld Location
T Gas Main Tie-in Location
A Gas Main Abandonment Location

Gas Facility Symbolology

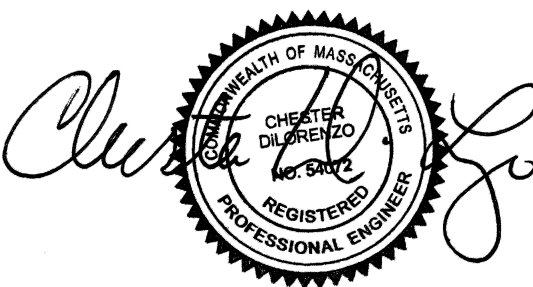
4"GV Gas Valve (Gate - GV, Plug - PV, PE Ball - BP, ST Ball - BV)
4"PV Critical Gas Valve
2"HVTT High Volume Tapping Tee
2"SST Pressure Control Fitting - ShortStopp Tee
4"SPH Pressure Control Fitting - Spherical Tee
6"MF-BO Pressure Control Fitting - Mueller Bottom-out
6"MF-SO Pressure Control Fitting - Mueller Side-out
4"MF-FT Pressure Control Fitting - Mueller Flange Tee
4"SS Pressure Control Fitting - ShortStopp
4"MF Pressure Control Fitting - ShortStopp
6x4 POLYTAP Polytapp Side Saddle Fitting
Transition
End Cap
Riser
Reducer
Electronic Marker
Flush-mounted Tracer Wire Station
Post Pipeline Marker with Tracer Wire
Gas Main Marker without Tracer Wire
Test Well
Regulator Station
Single Customer Regulator
Meter
Meter with Regulator
Test Point (Station)
Gas Service Tie-over
Gas Service Replacement
Meter Move Out

Swing Tie Symbolology

Telephone Manhole
Drain Manhole
Electric Manhole
Catch Basis
Sewer Manhole
Fire Hydrant
Utility Pole
Property Marker
Telephone Pedestal
Television Pedestal
Unknown Manhole
Water Box
Water Gate
Electric Pedestal
Iron Pin
Light Pole



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09/24/2019

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ABAN# XX-XXXXXXX-XX
PROJECT ID# 19-61713
15 CHARLOTTE DR, ANDOVER
ANDOVER, ESSEX

DRAWING TITLE:

GENERAL NOTES

DRAWING NO:

GN-1

Environmental Plan Narrative

- There is no Site-Specific Erosion Control plan requirement for this project. This plan narrative, with the project Environmental Compliance Plan (ECP), provide information regarding all environmental requirements. All NiSource construction activities must be performed in accordance with the NiSource Environmental Construction Standards (ECS) and the project ECP.
- The project ECP must be reviewed with construction and contractor personnel prior to the start of construction activities. This includes any tree clearing activities required prior to the start of pipeline construction.
- All NiSource construction projects must have a clearly defined work area or limits of disturbance (LOD). The LOD includes the permitted project area and any additional work space needed for laydown yards, soil stockpiling areas, access routes, etc. Notify NRP of any additional work space that may be needed outside of what is shown on this job order sketch.

Description and Minimum Requirements for Erosion and Sediment Control Measures

The information provided below outlines the purpose of common measures and how and when they shall be applied to the site. Figures showing installation details are provided in the NiSource ECS manual.

Perimeter Barriers: Perimeter barriers, such as silt fence and compost filter sock may be installed along the outside of the project area or around sensitive areas to slow and filter sediment laden runoff before it leaves the work area.

These measures are required in the following areas:

- When work is occurring adjacent to streams, wetlands or other sensitive areas.
- Around HDD bore pits adjacent to streams, wetlands or other sensitive areas.
- Around soil stockpiles that will remain uncovered for greater than one working day.
- Where any work areas or excavations will remain disturbed (unstabilized) for longer than one working day.

Inlet Protection: Storm drain inlet protection, both curb and drop inlets, are required in active work areas where there is functioning storm sewer to slow and filter water draining into the system. In areas where the work area is adjacent to, or water from the site flows onto a paved roadway, inlet protection will be placed in all functioning outlets.

Check dams: Rock check dams may be installed in areas of concentrated flow in a ditch line to slow runoff and allow sediment to settle prior to discharge. Check dams may also be used as a break in a perimeter barriers where runoff is concentrated and perimeter barriers are insufficient to detain runoff. Check dams are required when working in ditch lines where work will remain active for more than 1 day and as a supplementary measure determined to be needed during construction.

Dewatering Devices: A filter bag, or other approved dewatering device, must be used during all dewatering activities to remove suspended sediment from the water prior to discharge into the environment. Dewatering devices must be used in areas including, but not limited, to trench or pit dewatering and treatment of excess HDD mud.

Construction Entrances: In cases where vehicular access from the work area occurs at a single point for multiple days, a rock construction entrance must be installed. A stabilized construction entrance may not be feasible during construction within or immediately adjacent to a roadway as the construction project moves linearly along the road. In these cases, care should be taken to minimize vehicular access and the roadway shall be regularly cleaned of tracked sediment throughout the work day. Alternatives to rock entrances include the placement of timber mats or similar non erodible materials. Use of these alternatives must be approved by the NRP group or environmental inspector.

Trench Plugs/Breakers: Trench breakers consist of sand or earth filled sacks placed at intervals along the pipeline trench. Trench breakers may be installed at intervals within the trench to reduce water velocity along the pipeline bedding that can result in erosion during construction and after backfilling. Trench plugs consist of clay, bentonite or other impermeable material and are required adjacent to stream and wetland crossings to ensure that the flow of water along the trench line does not impact the waterbody.

Temporary Stabilization: Temporary stabilization includes the placement of an annual or cover crop and a straw or other mulch covering to protect disturbed areas from precipitation. In certain cases where redistribution will occur prior to a normal germination period, temporary stabilization with mulch or other covering may be completed without the application of seed.

Temporary stabilization will be completed on the following areas to reduce erosion from bare ground during rainfall events:

- Any areas, including stockpiles or tie-in pits, which will remain open overnight without perimeter controls.
- Any work area that will remain bare/disturbed longer than 7 days (4 in PA) without being actively worked within that time. Seeding must be completed within this time window.

Permanent Stabilization: Includes the placement of a permanent seed mix and a straw or other mulch covering to permanently stabilize the disturbed areas. Proper ground/ seed bed preparation (e.g. topsoiling, raking, decompaction) shall be completed as appropriate to the existing site area to provide a sufficient surface for seed germination.

Permanent seeding shall be completed immediately after work completion in all work areas without structural controls; regardless of whether the surrounding area is vegetated. Permanent seeding shall be applied within 7 days (4 days in PA) of work completion in areas all other areas; with the exception of work area protected by adequate structural controls where the surrounding area is an active construction site and was not vegetated prior to the start of work.

Erosion Control Blanket/Matting: Erosion control blanket is a straw matting that can be rolled out over a disturbed area and secured using pins or stakes. This blanket may be required on steeper sloped areas to hold seed and mulch in place. Erosion control blanket can also be useful in protecting the seed and holding moisture in dry, windy areas. Erosion control blanket must be used in restoration adjacent to streams or wetlands. It should also be used in areas with high erosion potential (e.g. steep slopes, embankments, ditch lines).

Maintenance: The job site shall be inspected by construction personnel at the end of each day to ensure that any controls are functioning and that the work area is sufficiently contained. Required maintenance of NiSource installed controls or corrective actions shall be performed immediately or within the time frames noted by an Environmental Inspector.

Measures previously installed by third parties shall be maintained by NiSource under the following circumstances:

- The control is not properly functioning and is being used to contain sediment and prevent erosion immediately adjacent to NiSource work.
- Damage to the control is the result of work performed by NiSource.

Projects Within Third Party Construction Sites:

In situations where NiSource projects are being completed within a larger project or development area, NiSource is still responsible for ensuring our work is in compliance with all laws and regulations. This must be documented under one of the following scenarios:

- Prior to the start of construction activities, a qualified NiSource representative will verify that all NiSource work activities will be covered under the third party's approved site plan and/or SWPPP and that the appropriate EC measures are installed and functioning. This review will be documented and retained in the project records.
- If the EC measures required by the third party's approved site plan are not present or functioning, NiSource construction activities may commence under the following conditions:
 - All disturbed NiSource work areas are stabilized at the end of the work day.
 - Any NiSource work areas requiring disturbance over one working day (e.g. stockpiles, tie-in pits) will require perimeter controls or temporary mulching or covering on a daily basis.
 - The overall project SWPPP is present/available and all NiSource activities remain within compliance of all outlined requirements.
 - Any additional permits required for the NiSource work are obtained.
 - The third party permit holder is informed of the site deficiencies and NiSource's plan to complete the work.

Final stabilization measures shall be completed as described in the applicable Temporary or Permanent Stabilization sections above to match the adjacent conditions of the third party project.

In addition to the preceding methods, the following erosion control measures will be used on a daily basis regardless of whether the work area is inside third party controls:

- Perimeter barriers around bore pits at wetland/ stream bores
- Dewatering activities using a filter bag or other approved method
- Roadway cleaning daily for sediment tracked onto paved surfaces

Wetland and Stream Crossings, Sensitive Areas:

All wetlands, stream crossings and other sensitive areas (e.g. managed lands, parks, and endangered species habitat areas) must be marked in the field with caution flagging prior to the start of clearing activities and/or land disturbing activities.

Any requirements for construction within these areas will be outlined within the ECP and the attached permit documents. These permits must also be reviewed prior to the start of construction.

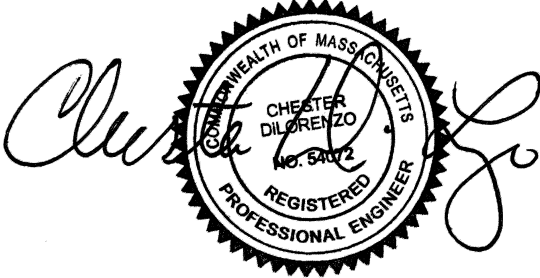
ENVIRONMENTAL EROSION AND SEDIMENT CONTROL SYMBOLOGY

ENVIRONMENTAL EROSION CONTROL BLOCKS
(on Env-ErosionControl layer)

Inlet Protection	IP	Temporary Stabilization	TAGNUMBER
Straw Wattle	SW	Permanent Stabilization	TAGNUMBER
Check Dam	CD	Erosion Control Matting	
Dewatering Device	DW	Construction Entrance	
Check Dam	CD	Filter Sock (12")	12"
Sediment Trap	ST	Filter Sock (18")	18"
Trench Breaker	TB	Filter Sock (24")	24"
Silt Fence	TAGNUMBER X	Tree Protection (on Env-TreeProtection layer)	TP
Environmental Impacted Area (on Env-Impact layer)		Tree Line (on Env-TreeLine layer)	
Wetlands Area (on Env-Wetlands layer)		Limits of Disturbance (on Env-DisturbanceLimit layer)	LOD
Stream Line (on Env-StreamLine layer)			



Know what's below.
Call before you dig.



09/24/2019

PROPOSED

REVISIONS

REV. #	DATE	DESCRIPTION
0	7/11/19	INITIAL / PERMIT ISSUE

DESIGNED BY	K MURRAY	6/17/19	978-802-5728
DRAWN BY	K MURRAY	6/17/19	978-802-5728
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:

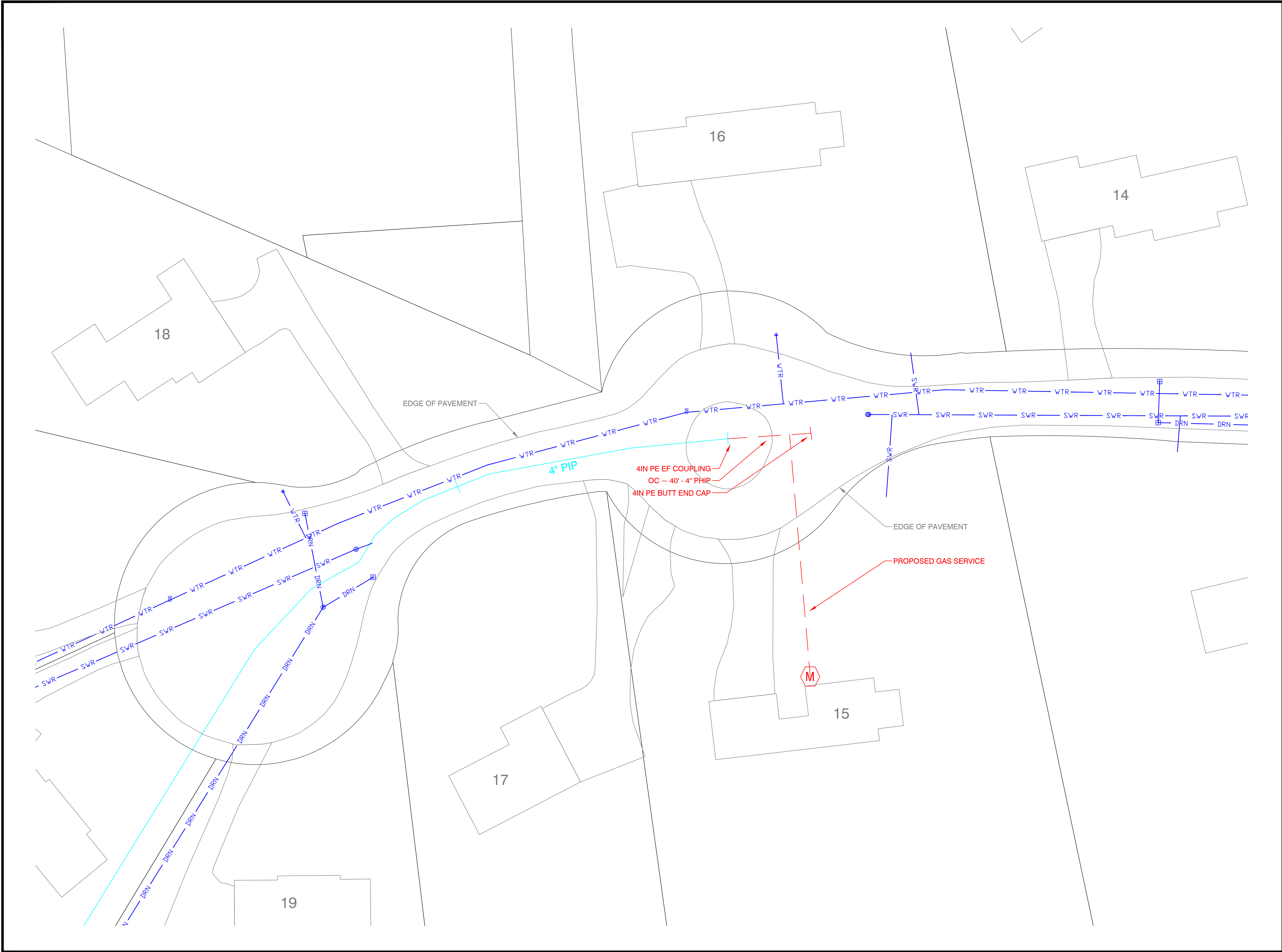
INST# 19-0844250-00
ABAN# XX-XXXXXXXX-XX
PROJECT ID# 19-61713
15 CHARLOTTE DR, ANDOVER
ANDOVER, ESSEX

DRAWING TITLE:

ENVIRONMENTAL
NARRATIVE

DRAWING NO:

ENV-1



Know what's below.
Call before you dig.

09/24/2019

PROPOSED

REVISIONS		
REV. #	DATE	DESCRIPTION
0	7/11/19	INITIAL / PERMIT ISSUE

DESIGNED BY	K MURRAY	6/17/19	978-802-5728
DRAWN BY	K MURRAY	6/17/19	978-802-5728
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:

INST# 19-0844250-00
ABAN# XX-XXXXXXX-XX
PROJECT ID# 19-61713
15 CHARLOTTE DR, ANDOVER
ANDOVER, ESSEX

DRAWING TITLE:

LAYOUT SHEET

DRAWING NO:

L-1

(TO BE COMPLETED DURING CONSTRUCTION)

[illegible]

Valve Installation Data												
Valve	Type	Size (in)	Stores Item Number (PO Number if Non-Stock)	Material (MDPE, HDPE, Steel)	Manufacturer	Clockwise to Close?	Turns to Close	Pressure Rating	Depth to Nut	Location 1	Location 2	Comments
						Y or N						

[illegible]

CONTROLLABLE FITTINGS

FITTING TYPE	LABEL	<u>SYMBOL</u>
BOTTOM OUT MUELLER FITTING	4" MF-BO	
HIGH VOLUME TEE	4x2 HVT	
SHORTSTOPP	4" SS	
FULL ENCIRCLEMENT SHORTSTOPP	4" SS-FE	
FULL ENCIRCLEMENT SHORTSTOPP TEE	4" SST-FE	
SIDE OUT MUELLER FITTING	4" MF-SO	
SPHERICAL TEE	4" SPH	
MUELLER STOPPER	4" MF-ST	
SHORTSTOPP TEE	4" SST	

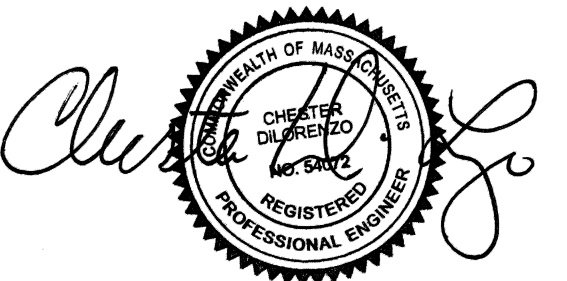
NONCONTROLLABLE FITTINGS

FITTING TYPE	LABEL	SYMBOL
BLOW-DOWN	BLOW-DOWN	N/A ^
BLOW-OFF	BLOW-OFF	N/A ^
CHECK VALVE	4" CHECK VALVE	⊗
COUPLING	4" COUPLING	
ELL	4" 90° ELL/45° ELL	N/A*
END CAP	4" DE CAP	N/A ^
LAUNCHER-RECEIVER	LAUNCHER-RECEIVER	N/A ^
PUMPKIN	PUMPKIN	
REDUCER	4x2 REDUCER	◀
RELIEF	RELIEF	N/A ^
SADDLE	8x4 BRANCH SADDLE	N/A*
TEE	4" INLINE TEE	N/A*
TRANSITION	4" TRANSITION	
WELD INSULATOR	4" WELD INSULATOR	
RISER	4" PMMP-R/CSMP-R	⊙

^ - "FITTING" TO BE REPRESENTED WITH DETAILED SKETCH OF FACILITY
* - FITTING INDICATED BY CHANGE IN DIRECTION (ELBOW) OR
INTERSECTION OF FACILITIES (INLINE TEE, BRANCH SADDLE)



Know what's **below**.
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09/24/2019

PROPOSED

REVISIONS

0	7/11/19	INITIAL / PERMIT ISSUE
REV. #	DATE	DESCRIPTION

DESIGNED BY	K MURRAY	6/17/19	978-802-5728
DRAWN BY	K MURRAY	6/17/19	978-802-5728
CHECK'D BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:

INST# 19-0844250-00
ABAN# XX-XXXXXXX-XX
PROJECT ID# 19-61713
 15 CHARLOTTE DR, ANDOVER
 ANDOVER, ESSEX


DRAWING TITLE:


MATERIAL INFORMATION

DRAWING NO:

L-1 MI

CONSTRUCTION DETAILS





Know what's below.
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PROPOSED

REVISIONS			
0	7/11/19	INITIAL / PERMIT ISSUE	
REV. #	DATE	DESCRIPTION	

DESIGNED BY	K MURRAY	6/17/19	978-802-5728
DRAWN BY	K MURRAY	6/17/19	978-802-5728
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:

INST# 19-0844250-00
ABAN# XX-XXXXXXX-XX
PROJECT ID# 19-61713
15 CHARLOTTE DR, ANDOVER
ANDOVER, ESSEX

DRAWING TITLE:

CONSTRUCTION
DETAILS

DRAWING NO:

D-1

Columbia Gas – Charlotte Drive Motion

I move that the Board approve, subject to the review and approval of the Andover Department of Public Works Engineering Division and Andover Fire Rescue, the petition of Columbia Gas requesting the permission to excavate for the purpose of replacing and/or extending its gas mains, according to blueprints provided in the petition, and to make necessary house connections along said extensions, on Charlotte Drive.

Moved by_____

Seconded by_____

Voted_____ to _____



TOWN OF ANDOVER

Town Clerk's Office

36 Bartlet Street
Andover, MA 01810
978-623-8255
townclerk@andoverma.gov

NOTICE

You are hereby notified that the Public Hearing will be held by the Andover Select Board on Tuesday, September 10, 2019 has been continued to Tuesday, September 24, 2019 in the 3rd Floor Conference Room, Town Officers, 36 Bartlet Street, at 8 p.m.

Columbia Gas of Massachusetts requests permission to excavate for the purpose of replacing and/ or extending its gas mains, according to blueprints annexed and made a part of its petition, and to make the necessary house connections along said extensions, as follows:

- To excavate approximately 2800 feet on High Plain Road from Beacon to 79 High Plain Road and 1000 feet on Virginia Road and Shirley Road, for the purpose of replacing the Cast Iron/Bare Steel-low pressure gas main with Plastic-high pressure in order to retire the Andover low pressure system. All existing gas services within the project scope will be tied into the new Plastic-high pressure main.
- As part of this project, the low pressure gas regulator vault across from 185 Lowell Street and redundant gas main on Beacon Street (390' of 6" ST-LP) and Lowell Street (665' of 6" CI-LP) will be retied.

JO#: 19-0844295-00

Should you have any concerns about this proposal, please contact Veena Kothapalli at 978-314-8061 prior to the above-mentioned Select Board's hearing date. A representative of the company will be available at 6:45 P.M. on the above date to answer any other questions you may have relating to the proposed work.

Plan(s) of the proposed work can be found on the Town of Andover website at www.andoverma.gov in the Open Meeting Calendar by searching under the public hearing date.

By order of the
Select Board


Austin Simko
Town Clerk

JO#: 19-0844295-00

Date: September 13, 2019



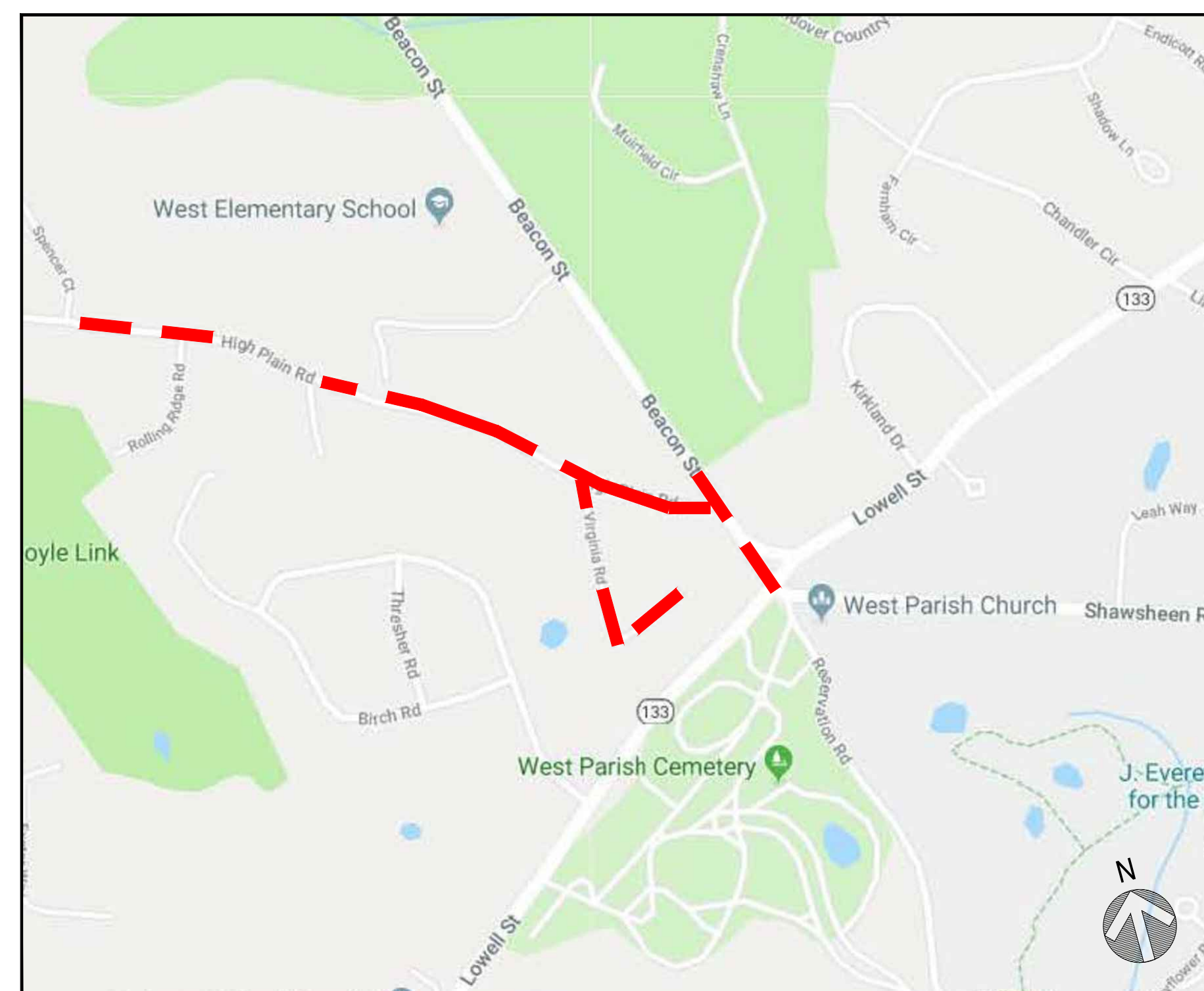
INSTALLATION ORDER NUMBER 19-0844295-00
ABANDONMENT ORDER NUMBER 19-0844296-00
PROJECT ID 19-62826
HIGH PLAIN RD.
JOB TYPE: REPLACEMENT (557/558)

PROJECT INFORMATION

FIELD ENGINEER/TECHNICIAN:	V. KOTHAPALLI
CONSTRUCTION FLL:	J. ANGELARI/K. WELLS
PERMITS:	TOWN OF ANDOVER
TCC/LOA:	8400
COUNTY:	ESSEX
TAX DISTRICT/TOWNSHIP ID:	401
MAP/GRID NUMBER:	MAP/GRID NUMBER
SYSTEM NUMBER(S):	80001004/800010019
24 HR. EMERGENCY LINE:	1-800-525-8222

VICINITY MAP

SCALE: NONE



PROJECT DESCRIPTION

THIS PROJECT IS TO REPLACE 3,125' OF 4¹/₆" ST-LP ON HIGH PLAIN RD, VIRGINIA RD, AND SHIRLEY RD WITH 3,800' OF 2¹/₄" PH-HP AND RETIRE THE REDUNDANT MAIN ON BEACON ST (390' OF 6" ST-LP) AND LOWELL ST (665' OF 6" CI-LP). AS PART OF THIS PROJECT, THE LOW PRESSURE REGULATOR STATION- LOWELL STREET, ANDOVER WILL ALSO BE RETIRED.

SHEET INDEX

DWG.	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
ENV-1	ENVIRONMENTAL PLAN NARRATIVE
O-1	OVERVIEW SHEET
L-1 - L-4	LAYOUT PLANS
D-1	CONSTRUCTION DETAILS

PROJECT SUMMARY TABLE

PROPOSED INSTALLATION			PROPOSED ABANDONMENT		
LENGTH (FT)	SIZE (IN)	TYPE	LENGTH (FT)	SIZE (IN)	TYPE
2,800'	4"	PHHP	655'	6"	CILP
1,000'	2"	PHHP	390'	6"	STLP
			2,125'	6"	STLP
			1,000'	4"	STLP
3,800'	TOTAL INSTALLATION (FEET)		4,170'	TOTAL ABANDONMENT (FEET)	

PROPOSED GAS SERVICES			
	REPLACEMENTS	TIE OVERS	METER OUT
ESTIMATED GAS SERVICES	20	8	28



Know what's **below**.
Call before you dig.



09/24/2019

PROPOSED

REVISIONS

0		
REV. #	DATE	DESCRIPTION

DESIGNED BY	V. KOTHAPALLI	7/9/19	978-314-8061
DRAWN BY	V. KOTHAPALLI	7/9/19	978-314-8061
CHECK'D BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:

INST# 19-0844295-00
ABAN# 19-0844296-00
PROJECT ID# 19-62826

HIGH PLAIN RD.
 ANDOVER, ESSEX COUNTY

DRAWING TITLE:

TITLE SHEET

DRAWING NO:

T-1

1. There is no Site-Specific Erosion Control plan requirement for this project. This plan narrative, with the project Environmental Compliance Plan (ECP), provide information regarding all environmental requirements. All NiSource construction activities must be performed in accordance with the NiSource Environmental Construction Standards (ECS) and the project ECP.
2. The project ECP must be reviewed with construction and contractor personnel prior to the start of construction activities. This includes any tree clearing activities required prior to the start of pipeline construction.
3. All NiSource construction projects must have a clearly defined work area or limits of disturbance (LOD). The LOD includes the permitted project area and any additional work space needed for laydown yards, soil stockpiling areas, access routes, etc. Notify NRP of any additional work space that may be needed outside of what is shown on this job order sketch.

The information provided below outlines the purpose of common measures and how and when they shall be applied to the site. Figures showing installation details are provided in the NiSource ECS manual.

These measures are required in the following areas:

1. When work is occurring adjacent to streams, wetlands or other sensitive areas.
2. Around HDD bore pits adjacent to streams, wetlands or other sensitive areas.
3. Around soil stockpiles that will remain uncovered for greater than one working day.
4. Where any work areas or excavations will remain disturbed (unstabilized) for longer than one working day.

Check dams: Rock check dams may be installed in areas of concentrated flow in a ditch line to slow runoff and allow sediment to settle prior to discharge. Check dams may also be used as a break in a perimeter barriers where runoff is concentrated and perimeter barriers are insufficient to detain runoff. Check dams are required when working in ditch lines where work will remain active for more than 1 day and as a supplementary measure determined to be needed during construction.

Construction Entrances: In cases where vehicular access from the work area occurs at a single point for multiple days, a rock construction entrance must be installed. A stabilized construction entrance may not be feasible during construction within or immediately adjacent to a roadway as the construction project moves linearly along the road. In these cases, care should be taken to minimize vehicular access and the roadway shall be regularly cleaned of tracked sediment throughout the work day. Alternatives to rock entrances include the placement of timber mats or similar non erodible materials. Use of these alternatives must be approved by the NRP group or environmental inspector.

Temporary Stabilization: Temporary stabilization includes the placement of an annual or cover crop and a straw or other mulch covering to protect disturbed areas from precipitation. In certain cases where redisturbance will occur prior to a normal germination period, temporary stabilization with mulch or other covering may be completed without the application of seed.

Permanent Stabilization: Includes the placement of a permanent seed mix and a straw or other mulch covering to permanently stabilize the disturbed areas. Proper ground/ seed bed preparation (e.g. topsoiling, raking, decompaction) shall be completed as appropriate to the existing site area to provide a sufficient surface for seed germination.

Erosion Control Blanket/Matting: Erosion control blanket is a straw matting that can be rolled out over a disturbed area and secured using pins or stakes. This blanket may be required on steeper sloped areas to hold seed and mulch in place. Erosion control blanket can also be useful in protecting the seed and holding moisture in dry, windy areas. Erosion control blanket must be used in restoration adjacent to streams or wetlands. It should also be used in areas with high erosion potential (e.g. steep slopes, embankments, ditch lines).

Measures previously installed by third parties shall be maintained by NiSource under the following circumstances:

1. The control is not properly functioning and is being used to contain sediment and prevent erosion immediately adjacent to NiSource work.
2. Damage to the control is the result of work performed by NiSource.

In situations where NiSource projects are being completed within a larger project or development area, NiSource is still responsible for ensuring our work is in compliance with all laws and regulations. This must be documented under one of the following scenarios:

1. Prior to the start of construction activities, a qualified NiSource representative will verify that all NiSource work activities will be covered under the third party's approved site plan and/or SWPPP and that the appropriate EC measures are installed and functioning. This review will be documented and retained in the project records.
2. If the EC measures required by the third party's approved site plan are not present or functioning, NiSource construction activities may commence under the following conditions:
 - a. All disturbed NiSource work areas are stabilized at the end of the work day.
 - b. Any NiSource work areas requiring disturbance over one working day (e.g. stockpiles, tie-in pits) will require perimeter controls or temporary mulching or covering on a daily basis.
 - c. The overall project SWPPP is present/available and all NiSource activities remain within compliance of all outlined requirements.
 - d. Any additional permits required for the NiSource work are obtained.
 - e. The third party permit holder is informed of the site deficiencies and NiSource's plan to complete the work.

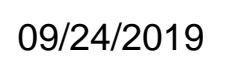
In addition to the preceding methods, the following erosion control measures will be used on a daily basis regardless of whether the work area is inside third party controls:

- Perimeter barriers around bore pits at wetland/ stream bores
- Dewatering activities using a filter bag or other approved method
- Roadway cleaning daily for sediment tracked onto paved surfaces

All wetlands, stream crossings and other sensitive areas (e.g. managed lands, parks, and endangered species habitat areas) must be marked in the field with caution flagging prior to the start of clearing activities and/or land disturbing activities.

ENVIRONMENTAL EROSION CONTROL BLOCKS (on Env-ErosionControl layer)





REVISIONS

0		
REV. #	DATE	DESCRIPTION

DESIGNED BY	V. KOTHAPALLI	7/9/19	978-314-8061
DRAWN BY	V. KOTHAPALLI	7/9/19	978-314-8061
CHECK'D BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:

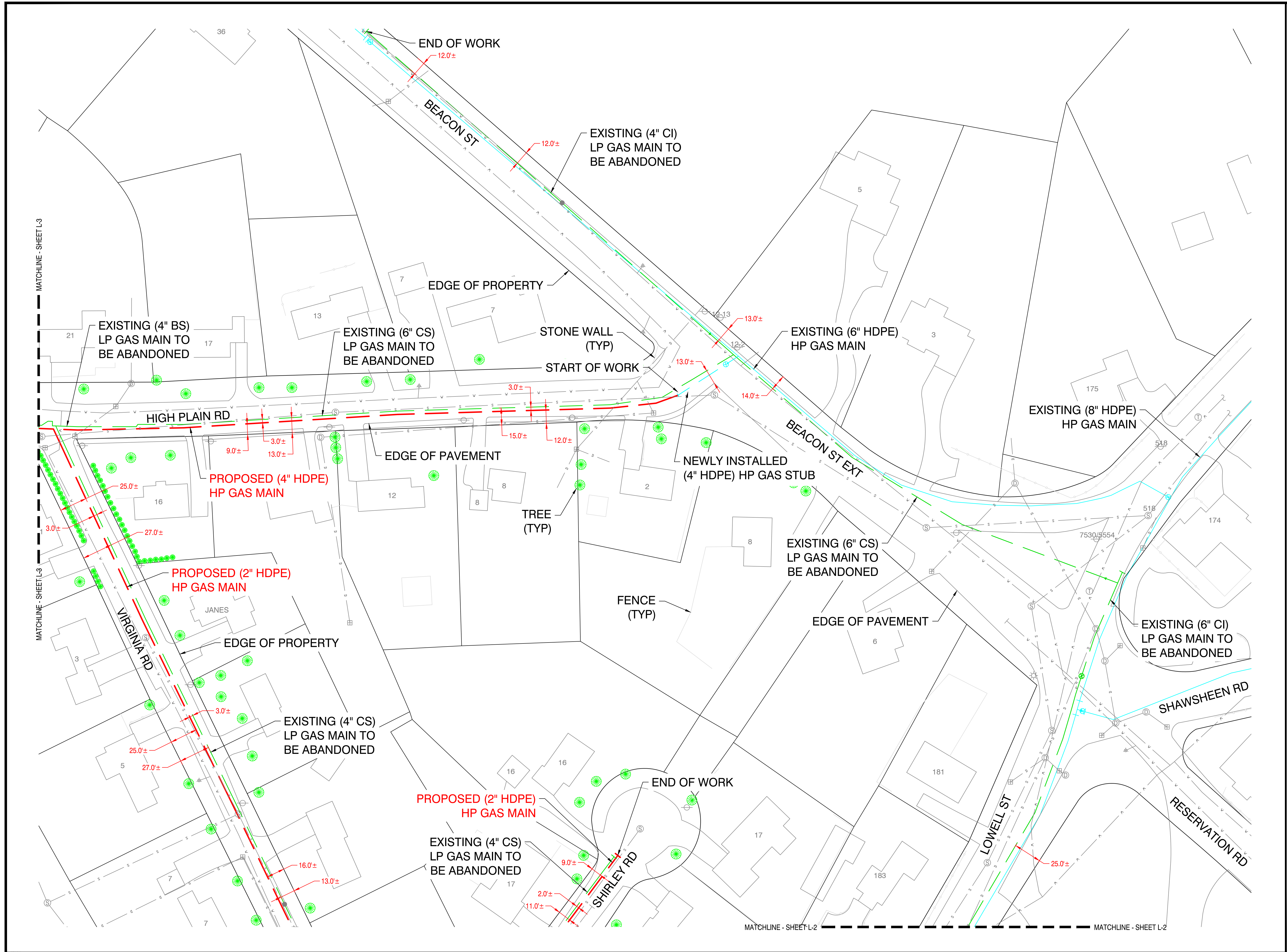
INST# 19-0844295-00
ABAN# 19-0844296-00
PROJECT ID# 19-62826
 HIGH PLAIN RD.
 ANDOVER, ESSEX COUNTY

DRAWING TITLE:

OVERVIEW SHEET

DRAWING NO:

0-1



Know what's below.
Call before you dig.

KEY PLAN

L-4	L-3	L-1
		L-2

09/24/2019

0 480.0768 960.1536
Feet

PROPOSED

REV. #	DATE	DESCRIPTION
0		

DESIGNED BY	V. KOTHAPALLI	7/9/19	978-314-8061
DRAWN BY	V. KOTHAPALLI	7/9/19	978-314-8061
CHECKED BY	X	X	X
AS-BUILT BY	X	X	X
	NAME	DATE	PHONE #

SITE NAME:

INST# 19-0844295-00
ABAN# 19-0844296-00
PROJECT ID# 19-62826
HIGH PLAIN RD.
ANDOVER, ESSEX COUNTY

DRAWING TITLE:

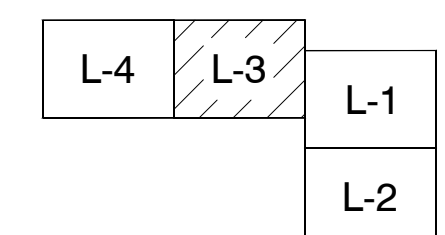
LAYOUT SHEET

DRAWING NO:

L-1



KEY PLAN



A horizontal number line is shown with tick marks at 0, 40, and 80. The word "Feet" is written below the line.

REVISIONS

REVISIONS		
0		
REV. #	DATE	DESCRIPTION

DESIGNED BY	V. KOTHAPALLI	7/9/19	978-314-8061
DRAWN BY	V. KOTHAPALLI	7/9/19	978-314-8061
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	NAME	DATE	PHONE #

INST# 19-0844295-00
ABAN# 19-0844296-00
PROJECT ID# 19-62826
HIGH PLAIN RD.
ANDOVER, ESSEX COUNTY

LAYOUT SHEET

L-3



L-4

AS-BUILT NOTES
 (TO BE COMPLETED DURING CONSTRUCTION)



PROPOSED

REVISIONS

0		
REV. #	DATE	DESCRIPTION

DESIGNED BY	V. KOTHAPALLI	7/9/19	978-314-8061
DRAWN BY	V. KOTHAPALLI	7/9/19	978-314-8061
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AS-BUILT BY	X	X	X
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SITE NAME: _____

INST# 19-0844295-00
ABAN# 19-0844296-00
PROJECT ID# 19-62826
 HIGH PLAIN RD.
 ANDOVER, ESSEX COUNTY

DRAWING TITLE:

CONSTRUCTION DETAILS

DRAWING NO:

D-1

Columbia Gas – High Plain Road Motion

I move that the Board approve, subject to the review and approval of Andover Department of Public Works Engineering Division and Andover Fire Rescue, the petition of Columbia Gas requesting the permission to excavate for the purpose of replacing and/or extending its gas mains, according to blueprints provided in the petition, and to make necessary house connections along said extensions, on approximately 2800 feet on High Plain Road from Beacon to 79 High Plain Road and 1,000 feet on Virginia Road and Shirley Road.

Moved by_____

Seconded by_____

Voted_____ to _____